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FOREWORD

UCR Mathematics is one of the few math departments in the U.S. that offers diversity in research and the unique opportunity to learn from some of the most prominent mathematicians in the country. The Department currently houses 23 faculty members and over 70 graduate students, with research expertise in algebra, analysis, applied mathematics, geometry, topology, mathematical physics and combinatorics. Our mathematics program prepares graduates to enter top mathematics education programs.

At the graduate level, we offer a M.S., M.A. and Ph.D. At the undergraduate level, we offer B.A. and B.S. degree programs that share a common, solid mathematical foundation but differ in their specializations in the pure and applied areas of mathematics. In addition, we offer a B.S. in Mathematics for Secondary Teachers, which is intended for students planning to pursue a career as high school teachers.

We are confident that you will find UCR a dynamic and rewarding place in which to work, and we look forward to a productive and successful association. We consider faculty to be one of the department’s most valuable resources. This handbook has been written to serve as the guide for new/current members of the department.

There are several things to keep in mind about this handbook. First, it contains only general information and guidelines. It is not intended to be comprehensive or to address all the possible applications of, or exceptions to, the general policies and procedures described. For that reason, if you have any questions concerning eligibility for a particular benefit or the applicability of a policy or practice to you, you should address your specific questions to the Human Resources department.

Some subjects described in this handbook are covered in detail in official policy documents. Refer to these documents for specific information because the handbook only briefly summarizes those guidelines and benefits.
Department Handbook Acknowledgment and Receipt

I have received my copy of the Department Handbook.

The employee handbook describes important information about UCR and the Department of Mathematics, and I understand that I should consult Human Resources regarding any questions not answered in the handbook.

I have received the handbook, and I understand that it is my responsibility to read and comply with the policies contained in this handbook and any revisions made to it.

________________________________________
Employee’s Signature

________________________________________
Employee’s Name (Print)

____________________
Date
# Campus Resources

## Department Contacts

<table>
<thead>
<tr>
<th>Financial and Administrative Officer</th>
<th>Academic Coordinator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beverly McNeil</td>
<td>Rob Lam</td>
</tr>
<tr>
<td>Office: Surge 215</td>
<td>Office: Surge 211A</td>
</tr>
<tr>
<td>E-mail: <a href="mailto:beverly@ucr.edu">beverly@ucr.edu</a></td>
<td>Email: <a href="mailto:roblam@math.ucr.edu">roblam@math.ucr.edu</a></td>
</tr>
<tr>
<td>Phone: 951-827-3021</td>
<td>Phone: 951-827-3117</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Financial Analyst</th>
<th>Academic Coordinator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crissy Reising</td>
<td>Rob Lam</td>
</tr>
<tr>
<td>Office: Surge 217</td>
<td>Office: Surge 211A</td>
</tr>
<tr>
<td>Email: <a href="mailto:crissyr@ucr.edu">crissyr@ucr.edu</a></td>
<td>Email: <a href="mailto:roblam@math.ucr.edu">roblam@math.ucr.edu</a></td>
</tr>
<tr>
<td>Phone: 951-827-3019</td>
<td>Phone: 951-827-3117</td>
</tr>
</tbody>
</table>

| IT Coordinator & Chair’s Assistant| Enrollment Management Center |
|-----------------------------------| Assistant Director, Amy Ricks|
| James Marberry                    | Office: Batchelor Hall 1140 |
| Office: Surge 218 & 211A (Tech Office) Email: jamesm@math.ucr.edu | Email: amy.ricks@ucr.edu |
| Phone: 951-827-2568               | Phone: 951-827-5517   |

| Academic Scheduling Assistant      | Graduate Student Services Advisor |
|------------------------------------| John Herring                      |
| Randy Morgan                       | Office: Batchelor Hall, 1140     |
| Office: Surge 214                  | Email: john.herring@ucr.edu      |
| Email: randym@ucr.edu              | Phone: 951-827-2441             |
| Phone: 951-827-3114                |                                      |

<table>
<thead>
<tr>
<th>Travel and Accounting Coordinator</th>
<th>Undergraduate Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joyce Sphabmisai</td>
<td>Javier Ramirez</td>
</tr>
<tr>
<td>Office: Surge 216</td>
<td>Office:1223 Pierce Hall</td>
</tr>
<tr>
<td>Email: <a href="mailto:joycesph@ucr.edu">joycesph@ucr.edu</a></td>
<td>Email: <a href="mailto:javier.ramirez@ucr.edu">javier.ramirez@ucr.edu</a></td>
</tr>
<tr>
<td>Phone: 951-827-3116</td>
<td>Phone: 951-827-7288</td>
</tr>
</tbody>
</table>

| Enrollment Management Center      |  |
| Assistant Director, Amy Ricks     |  |
| Office: Batchelor Hall, 1140      |  |
| Email: amy.ricks@ucr.edu          |  |
| Phone: 951-827-5517               |  |

| Academic Scheduling Assistant      |  |
| Randy Morgan                       |  |
| Office: Surge 214                  |  |
| Email: randym@ucr.edu              |  |
| Phone: 951-827-3114                |  |

<table>
<thead>
<tr>
<th>Travel and Accounting Coordinator</th>
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<td>Javier Ramirez</td>
</tr>
<tr>
<td>Office: Surge 216</td>
<td>Office:1223 Pierce Hall</td>
</tr>
<tr>
<td>Email: <a href="mailto:joycesph@ucr.edu">joycesph@ucr.edu</a></td>
<td>Email: <a href="mailto:javier.ramirez@ucr.edu">javier.ramirez@ucr.edu</a></td>
</tr>
<tr>
<td>Phone: 951-827-3116</td>
<td>Phone: 951-827-7288</td>
</tr>
</tbody>
</table>
**CNAS Contacts**

<table>
<thead>
<tr>
<th>Divisional Dean, Mathematics</th>
<th>Director of Academic Personnel Services</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Umar Mohideen</strong></td>
<td><strong>Laurie Bollinger</strong></td>
</tr>
<tr>
<td>2258C Geology</td>
<td>College Building North 2nd Floor</td>
</tr>
<tr>
<td>Telephone: (951) 827-3101</td>
<td>Telephone: 951-827-3978</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CNAS Dean's Office</th>
<th>Analyst, Personnel Services</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>College Building North 2nd Floor</strong></td>
<td><strong>College Building North 2nd Floor</strong></td>
</tr>
<tr>
<td>Telephone: 951-827-6555</td>
<td>Telephone: 951-827-4431</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Academic Personnel Assistant</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tavia Rivera</strong></td>
<td></td>
</tr>
<tr>
<td>College Building North, 2nd Floor</td>
<td></td>
</tr>
<tr>
<td>Telephone: 951-827-3997</td>
<td></td>
</tr>
</tbody>
</table>
Diversity

University Of California Diversity Statement

Adopted by the Assembly of the Academic Senate May 10, 2006
Endorsed by the President of the University of California June 30, 2006
Adopted as Amended by the Assembly of the Academic Senate April 22, 2009 Endorsed as Amended by the President of the University of California August 17, 2010

The diversity of the people of California has been the source of innovative ideas and creative accomplishments throughout the state’s history into the present. Diversity – a defining feature of California’s past, present and future – refers to the variety of personal experiences, values, and worldviews that arise from differences of culture and circumstance. Such differences include race, ethnicity, gender, age, religion, language, abilities/disabilities, sexual orientation, gender identity, socioeconomic status, and geographic region, and more.

Because the core mission of the University of California is to serve the interests of the State of California, it must seek to achieve diversity among its student bodies and among its employees. The State of California has a compelling interest in making sure that people from all backgrounds perceive that access to the University is possible for talented students, staff, and faculty from all groups. The knowledge that the University of California is open to qualified students from all groups, and thus serves all parts of the community equitably, helps sustain the social fabric of the State.

Diversity should also be integral to the University’s achievement of excellence. Diversity can enhance the ability of the University to accomplish its academic mission. Diversity aims to broaden and deepen both the educational experience and the scholarly environment, as students and faculty learn to interact effectively with each other, preparing them to participate in an increasingly complex and pluralistic society. Ideas, and practices based on those ideas, can be made richer by the process of being born and nurtured in a diverse community. The pluralistic university can model a process of proposing and testing ideas through respectful, civil communication. Educational excellence that truly incorporates diversity thus can promote mutual respect and make possible the full, effective use of the talents and abilities of all to foster innovation and train future leadership.

Therefore, the University of California renews its commitment to the full realization of its historic promise to recognize and nurture merit, talent, and achievement by supporting diversity and equal opportunity in its education, services, and administration, as well as research and creative activity. The University particularly acknowledges the acute need to remove barriers to the recruitment, retention, and advancement of talented students, faculty, and staff from historically excluded populations who are currently underrepresented. (Policies pertaining to diversity can be found here: http://diversity.ucr.edu/about/policies.html)
Sexual Harassment and Sexual Violence Policy Summary

The University of California is committed to creating and maintaining a community where all individuals who participate in University programs and activities can work and learn together in an atmosphere free of harassment, exploitation, or intimidation. Every member of the community should be aware that the University prohibits sexual harassment and sexual violence, and that such behavior violates both law and University policy. The University will respond promptly and effectively to reports of sexual harassment and sexual violence, and will take appropriate action to prevent, to correct, and when necessary, to discipline behavior that violates this policy on Sexual Harassment and Sexual Violence (hereafter referred to as Policy).

This Policy applies to all University of California employees and students at its campuses, the Lawrence Berkeley National Laboratory, the Medical Centers, the Office of the President (“locations”), Agriculture and Natural Resources, and its University programs and activities. This Policy furthers the University’s commitment to compliance with the law and to the highest standards of ethical conduct as outlined in the University’s Statement of Ethical Values and Standards of Ethical Conduct. It is the policy of the University not to engage in discrimination against or harassment of any person associated with the University of California. (full policy can be found here: http://policy.ucop.edu/doc/4000385/SHSV)
Workplace Safety

Campus Policy 850-85

Violence Prevention at UC Riverside

Policy Owner: Executive Vice Chancellor/Provost

Effective Date: 10/27/98 (updated 11/2007)

The policy of the University of California, Riverside is a Zero Tolerance Standard with regard to threats and violent behavior in the workplace. Specifically prohibited are: threats and/or violent behavior, whether direct, indirect, implied, or actual conduct from any person, including faculty, staff, students and members of the public. This type of conduct is prohibited at any UCR facility, or in connection with the conduct of UCR business without regard to location.

This policy applies to every member of the UCR community. Any employee or student who has engaged in threats or violence against co-workers, students, or any person in connection with UCR business will be subject to disciplinary action, up to and including termination of employment/dismissal from school.

The objectives of this policy are:
To prevent workplace violence through training and early detection.
To provide a protocol for the prompt handling of all workplace threats and violent behavior.
To ensure that UCR is in conformance with Title 8, California Code of Regulations, General Industry Safety Orders, and all mandates regarding the prevention of violence in the workplace. (full policy can be found here: http://fboapps.ucr.edu/policies/index.php?path=viewPolicies.php&policy=850-85)

Campus Policy 650-83

Substance Abuse in the Workplace

Policy Owner: Human Resources

Effective Date: 11/13/06

The University of California recognizes drug and alcohol dependency as treatable conditions and offers Employee Support Programs for University employees with substance-dependency problems. Employees are encouraged to seek assistance for drug and alcohol related problems and may request vacation or sick leave, or attending Employee Support Programs outside regular working hours. Information obtained regarding an employee during participation in an Employee Support Program will be treated as confidential.

The University strives to maintain a workplace free from the illegal use, possession, or distribution of controlled substance (as defined in schedules I through V of the Controlled Substances Act, 21 United States Code 812, as amended). Unlawful manufacture, distribution, dispensation, possession, or use of controlled substances by University employees in the workplace or on University business is prohibited. In addition, employees shall not use illegal substances or abuse legal substances in a manner that impairs performance of assigned tasks.

Employees found to be in violation of this Policy may be subject to corrective action, up to and including dismissal, under applicable University policies and labor contracts, or may be required, at the discretion of the University, to participate satisfactorily in an Employee Support Program (full policy can be found here: http://fboapps.ucr.edu/policies/index.php?path=viewPolicies.php&policy=850-85).
Campus Policy 850-65

Smoke/Tobacco-Free Environment

Policy Owner: Business and Administrative Services

Effective Date: 9/16/11(revised 01/2014)

The University of California is concerned about the toll that smoking and tobacco use has on the health and well-being of the University community. As a public institution of higher education with units that research and treat the effects of smoking and tobacco use, the University recognizes its responsibility to exercise leadership in the promotion of a healthy, smoke/tobacco-free environment for all students, employees, and visitors.

UC Riverside, effective January 2, 2014, prohibits smoking and the use of tobacco products at all University Controlled Properties. Smoking, the use of smokeless tobacco products, e-cigarettes, and unregulated nicotine products are strictly prohibited.

This smoke/tobacco-free policy and associated procedures apply to all University Controlled Properties, regardless of location, including but not limited to all University land, buildings, and parking lots, as well as all private residential space owned or leased as University Controlled Properties. For property acquired or received by gift or bequest after the effective date of this policy, the provisions of this policy will apply (i) 30 days following the date of such acquisition or receipt, if the property is then unoccupied; or (ii) if the property is occupied at the time of acquisition or receipt, 30 days following the expiration of such preexisting occupancy agreement. In addition, the sale and advertising of tobacco and tobacco-related products are prohibited at all University Controlled Properties except for advertising in newspapers, magazines, or other written materials sold, bought, or distributed on campus.

This policy applies to all members of the UC Riverside community including faculty, staff, students, alumni, volunteers, contractors, visitors, and anyone entering onto University Controlled Properties. It is applicable twenty-four (24) hours a day, seven (7) days a week. UC Riverside understands that the success of this policy depends on the thoughtfulness, consideration, and cooperation of smokers and non-smokers, alike.

This policy serves the UC Riverside goal of meeting sustainable green building design standards through LEED® (full policy can be found here: http://fboapps.ucr.edu/policies/index.php?path=viewPolicies.php&policy=850-85).
Instructor Teaching Guide

TEXTBOOKS

James (jamesm@math.ucr.edu ) is responsible for filling out textbook requisition forms each quarter so the bookstore can order books for students. It is the responsibility of the faculty member to verify textbook requirements for the coming quarter and to inform staff of any changes. James will email faculty and ask them to confirm the designated text. [Texts for Math 004 to 046 are set by a committee and are not open to change.] After receiving verification, the requisition forms will be sent. If a faculty member is intending to incorporate a new textbook please inform James and the math staff asap as it can take weeks to obtain instructor copies. Instructor copies may be checked out from the math front office, Surge 208. Instructions, forms, and a list of texts for the quarter are posted on the bookshelves. Departmental textbooks are checked out on a quarterly basis and are expected to be returned at the end of instruction. Due to the difficulty associated with obtaining instructor copies, please return books promptly to ensure availability for colleagues.

SUPPLIES:

Supplies - whiteboard markers, chalk, erasers, notepads, etc. - are kept in the math front office, Surge 208. Faculty, lecturers and grads are free to take what is needed for teaching. If other classroom materials are needed please contact James (jamesm@math.ucr.edu ) or Joyce (joycesph@ucr.edu ) and if authorized, additional supplies will be ordered.

KEYS:

Joyce (joycesph@ucr.edu ) is responsible for key inventory and distribution. When a new faculty member or teaching assistant arrives, he or she is assigned a predetermined set of keys. Keys are checked out for the duration of the faculty’s, lecturer’s or grad student’s stay unless otherwise stated and noted. If additional keys are needed, please see or contact Joyce (joycesph@ucr.edu ). If the request is authorized, Joyce will ask the requestor to come in and sign a form before distributing any keys.

ROOM RESERVATIONS FOR MATH CONTROLLED ROOMS:

<table>
<thead>
<tr>
<th>Building</th>
<th>Room</th>
<th>Capacity</th>
<th>Current Bookings</th>
<th>Reserve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surge</td>
<td>284</td>
<td>60</td>
<td>284 Calendar</td>
<td>Request Form</td>
</tr>
<tr>
<td>Surge</td>
<td>268</td>
<td>35</td>
<td>268 Calendar</td>
<td>Request Form</td>
</tr>
<tr>
<td>Surge</td>
<td>277</td>
<td>15 (no screen for projector)</td>
<td>277 Calendar</td>
<td>Request Form</td>
</tr>
<tr>
<td>Pierce</td>
<td>2416</td>
<td>25 (no equipment)</td>
<td>2416 Calendar</td>
<td>Request Form</td>
</tr>
</tbody>
</table>

*All rooms are booked to start 10 minutes after the hour or half hour to allow for transition time and setup.

1. Check room availability via room calendar link (http://mathdept.ucr.edu/procedure.html)
2. Fill out and submit the form.
3. You will receive a submission (not booking) confirmation.

4. James will email you a booking confirmation and then your booking will show up on the calendar.
   - Due to processing time there are instances when the calendar may not reflect current availability, therefore alternate dates and times are required on all requests.
   - Room Requests on Weekends will require the requestor to have a building key. If you are not sure if you have one, you can check with Joyce (joycesph@ucr.edu) about verifying or obtaining a building key.

**OFFICE REASSIGNMENT (VAPS)**

Please note that after year one your office space may be reassigned. You will be provided ample time to move to your new office. The department will try its best to minimize the number of individuals impacted. However, if you plan to leave your campus during the summer for an extensive trip, please inform the Department Office to prepare for a move prior to your trip.

**PHOTOCOPYING AND PRINTING:**

Each faculty member, lecturer and grad student is given a copier code. Codes are chosen by faculty/lecturers/grads and entered by James. This code is unique to the user and helps the math department keep track of use and costs. Each page printed costs the department money as the copier is leased from UCR Printing and Repographics.

**ENROLLMENT ISSUES:**

Enrollment issues for most Math courses are handled by the CNAS Enrollment Management Center in 1301 Webber Hall. If students are repeating a course or need permission to enroll, they must submit the necessary form(s) to https://ucrsgsac.wufoo.com/forms/enrollment-request/.

**EXAM ADMINISTRATION:**

Proctoring of exams requires at least one Faculty member to be present. Exams are typically proctored with assistance from the Discussion or Laboratory TAs. For larger service courses, additional administration (e.g. seating charts) may be arranged with the Academic Coordinator. Math’s academic coordinator is Rob Lam (roblam@math.ucr.edu). In circumstances where students require accommodation, request for special testing arrangements may be submitted via the Academic Support Center.

**ACCOMMODATIONS STATEMENT:**

The Services for Students with Disabilities department recommends including the following statement in your syllabus: “If you have a disability or believe you may have a disability, you can arrange for accommodations by contacting Services for Students with Disabilities (SSD) at 951-827-4538 (voice) or specserv@ucr.edu (email). Students needing academic accommodations are required to register with SSD and provide required disability-related documentation. If you have approved accommodation(s), you are advised to notify your instructor privately.”

**COURSE EVALUATIONS:**

Student evaluations are handled online through iEval (http://ieval.ucr.edu). Randy Morgan (randym@ucr.edu) is the primary contact for this process. Teaching Assistant evaluations are handled by the Graduate Division for courses during the academic year.
Instructors will receive an automated email reminder about the availability of iEval access towards the end of the quarter. Note that students who do not complete a course evaluation online for a particular course will not be able to see their final grade for that course (via GROWL) until the start of the next quarter.

**GRADING:**

Final letter grades for all courses are submitted to the Registrar using iGrade (igrade.ucr.edu). For information about iGrade, please visit the iGrade information website at http://cnc.ucr.edu/igrade. It is the instructor(s) of record that submits final letter grades. Grade assignments (including grade changes and appeal of grades) are governed by the Academic Senate Bylaws; see http://senate.ucr.edu/bylaws/?action=read_bylaws&code=r&section=01 and http://senate.ucr.edu/bylaws/?action=read_bylaws&code=r&section=05

Scores for assessments during the quarter can be posted to iLearn at the discretion of the instructor(s). See this site: cnc.ucr.edu/ilearn.

**GRADE CHANGE:**

Per the 16-17 General Catalog: Grades are final at the end of each quarter. If a student discovers a clerical or procedural error was made in the posting of their grade, they must contact you immediately and request a revision. This type of revision can be made only if: 1) the basis for the change is found in the work which the student submitted as part of the regular assignments during the quarter; 2) the change is not the result of re-examination (unless the initial grade was Incomplete); 3) the change does not involve a change in the grading basis (from S/NC to letter grade or reverse).

Please be aware that after grades are submitted, UCR regulations dictate that grade change is appropriate only to address clerical error. If in doubt, please consult chair of the department or undergraduate advisors.

The main contact for a Grade Change is Amy Ricks (amy.ricks@ucr.edu / Webber Hall 1140 / 951-827-5913) in the CNAS Enrollment Management Center (Webber Hall 1301). The department usually has Grade Change forms in the main math office. It is the instructor’s responsibility to fill out and mail or walk the completed form to Amy Ricks. To mail the form: use an interdepartmental envelope and use the address Amy Ricks Batchelor Hall 1140 (no direct mail goes to Webber Hall) and put the envelope in the brown bag in the front math office, Surge 208.
TA MANAGEMENT

While Teaching Assistantships are allocated to assist instructors, our utilization is subject to financial constraints as well as union contract. For instance, there is a cap on how many hours a TA can work each quarter. In addition, each instructor is required to provide a "Description of Duties" to their TAs at the beginning of the quarter. If there is any change, they should revise the form, and inform the TA accordingly*1.

If a TA has issues regarding her or his workload or performance, the TA should advise the instructor. The instructor should also notify the Chair or Vice Chair promptly.

ABSENCE (Short-term less than seven calendar days):

Prior to executing a planned absence the department expects the faculty member to coordinate with colleagues in order to find a substitute. Upon identification of a substitute it is important to confirm he/she is qualified to teach the course in question (*TAs cannot substitute). In the case of an unplanned absence, contact the department promptly and circumstances will dictate the action taken thereafter.

---

*1 “This statement is paraphrased from information provided in the contract between the University of California and the International Union, United Automobile, Aerospace and Agricultural Implement Workers of America (UAW) 2865, which is in effect June 21, 2014 through June 30, 2018. In the event of perceived differences between any statements provided in this handbook and the contract itself, provisions and language in the actual contract will prevail.”
MAE Overview

The Mathematics Advisory Exam (MAE) is used by UCR to assess student readiness for University work and to determine the appropriate course placement in Mathematics. Students must satisfy placement requirements before registering for this subject at UCR. Examination results are used for advising and placement purposes only; unit credit cannot be earned with these exams.

### Math 2016 - 2017 MAE Placement Matrices

#### Placement for CHASS students needing Math 4 and/or Math 22

<table>
<thead>
<tr>
<th>MAE Part I 45 Questions</th>
<th>MAE Part II 60 Questions</th>
<th>ARC 35</th>
<th>Math 4</th>
<th>Math 5</th>
<th>Math 22</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-20</td>
<td>0-28</td>
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<td></td>
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<td>X</td>
</tr>
</tbody>
</table>

#### Placement for CNAS, BCoE and CHASS students that need Math 9 (e.g. ECON, BSEC etc)

<table>
<thead>
<tr>
<th>MAE Part I 45 Questions</th>
<th>MAE Part II 60 Questions</th>
<th>ARC 35</th>
<th>Math 6A</th>
<th>Math 5</th>
<th>Math 9A</th>
</tr>
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<tbody>
<tr>
<td>0-26</td>
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<tr>
<td>29-39</td>
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MDPT Practice Test 1 (Pre-Calculus)

1. What is the radian measure of an angle whose degree measure is 72°?
   
   a) \( \frac{5}{2\pi} \)  
   b) \( \frac{2\pi}{5} \)  
   c) \( \frac{\pi}{5} \)  
   d) \( \frac{2}{5} \)  
   e) \( \frac{1}{5} \)

2. In the figure to the right, AB is the diameter of the circle with center O. If the length of OC is 10 and the length of BC is 16, what is the length of AC?

   ![Triangle Diagram]

   a) 11  
   b) 20  
   c) 8  
   d) 10  
   e) 12

3. One solution to \( x^2 + 64 = 0 \) is

   a) 8i  
   b) -64  
   c) 8  
   d) 64i  
   e) -8

4. \( \sqrt{36x^{10}y^2} - 36y^2 = \)

   a) 6x^5y^6  
   b) 36x^5y^6 - 36y^6  
   c) 6y^6 \sqrt{x^{10} - 1}  
   d) 36y^6 \sqrt{x^{10} - 1}  
   e) 6x^5y^6 - 6y^6

5. \( (27a^{-3}b^8c^6)^{1/3} = \)

   a) 9ab^2c^2  
   b) 3ab^3c^2  
   c) \( \frac{3b^2c^2}{a} \)  
   d) \( \frac{b^2c^2}{3a} \)  
   e) \( \frac{9b^2c^2}{a} \)

6. If \( \sin \theta = \frac{3}{5} \) and \( 0 \leq \theta \leq \frac{\pi}{2} \), then \( \tan \theta = \)

   a) \( \frac{3}{2} \)  
   b) \( \frac{4}{3} \)  
   c) \( \frac{5}{4} \)  
   d) \( \frac{4}{5} \)  
   e) \( \frac{3}{4} \)

7. \( \frac{\left(\frac{x^2}{x^2 - 1}\right) \cdot \frac{(x + 1)^3}{(2x + 3)(x + 3)}}{2x - 6 \cdot \frac{1}{x}} = \)

   a) \( \frac{2(x - 3)^2(x + 1)}{(x - 1)^2(2x + 3)} \)  
   b) \( \frac{x + 1}{2(2x + 3)} \)  
   c) \( \frac{x + 1}{(x - 1)(2x + 3)} \)  
   d) \( \frac{x + 1}{2(2x + 3)} \)  
   e) none of the above
8. \[
\frac{1}{x-5} + \frac{11}{(x-5)^2} = \]
\[
a) \frac{11}{(x-5)(x+1)} \quad c) \frac{12}{(x-5)^2(x+1)} \quad d) \frac{(x-6)(x+1)}{(x-5)^2} \quad e) \frac{12(x+1)}{(x-5)^2}
\]
\[
b) \frac{x+6}{(x-5)^2(x+1)}
\]

9. In the triangle ABC to the right, the length of AB is equal to the length of BC. What is x?

a) 233 \quad b) 3 \quad c) 33 \quad d) 12 \quad e) 30

10. Which of the following can NOT be a root of the polynomial \(x^4 - 8x^3 - 10x^2 + 158x + 168\)?

a) 7 \quad b) -4 \quad c) 6 \quad d) 1 \quad e) -1

11. In the quadrilateral ABCD, the diagonals AC and BD bisect each other and are perpendicular. Which of the following could be a description of ABCD?

I. a rectangle which is not a square
II. a rhombus which is not a square
III. a parallelogram which is not a rhombus
IV. a square

a) I, II, III, and IV \quad b) II and III \quad c) I and IV \quad d) IV only \quad e) II and IV

12. What is the distance between the points (7, 8) and (6, 1)?

a) \(\sqrt{82}\) \quad b) \(\sqrt{48}\) \quad c) \(\sqrt{50}\) \quad d) \(\sqrt{218}\) \quad e) \(\sqrt{40}\)

13. If \(16^x16^{x+12} = 16^{3x-4}\), then \(x =\)

a) 8 \quad b) 16 \quad c) \(-\frac{2}{5}\) \quad d) \(-\frac{9 + \sqrt{65}}{2}\) \quad e) \(\frac{16}{3}\)
14. In the figure to the right, the measures of the angles are given in degrees. What is the measure of angle $C$?

\[
\begin{array}{c}
45^\circ \\
55^\circ
\end{array}
\]

\begin{align*}
15. \quad \frac{xy^2}{(3x^2y^{-1})^{-4}} &= \\
a) \quad \frac{81}{x^7y^2} & \quad b) \quad \frac{1}{81x^7y^2} & \quad c) \quad \frac{9^6}{81x^7} & \quad d) \quad \frac{81x^9}{y^2} & \quad e) \quad 81x^9y^6
\end{align*}

16. \(\log_5 c = 4\) means

\begin{align*}
a) \quad d^c &= b & \quad b) \quad b^4 &= c & \quad c) \quad c^4 &= b & \quad d) \quad b^c &= 4 & \quad e) \quad d^b &= 6
\end{align*}

17. The point \((3, -5)\) is reflected across the \(x\)-axis, then across the \(y\)-axis, then across the line \(y = x\). What is the resulting point?

\begin{align*}
a) \quad (5, -3) & \quad b) \quad (-3, 5) & \quad c) \quad (5, 3) & \quad d) \quad (-3, -5) & \quad e) \quad (3, 5)
\end{align*}

18. \(-2|x - 3| - 5 \geq -7\) is equivalent to

\begin{align*}
a) \quad x \leq 2 \text{ and } x \geq 4 & \quad b) \quad -4 \leq x \leq 2 & \quad c) \quad 2 \leq x \leq 4 & \quad d) \quad x \leq -2 \text{ and } x \geq 4 & \quad e) \quad x \leq -4 \text{ and } x \geq 2
\end{align*}

19. \(\frac{\sqrt{27x}}{\sqrt{81x}} =

\begin{align*}
a) \quad \frac{\sqrt{3}}{\sqrt{x}} & \quad b) \quad \frac{1}{3} & \quad c) \quad \sqrt{3} \cdot \sqrt{x} & \quad d) \quad \frac{1}{3\sqrt{x}} & \quad e) \quad \frac{\sqrt{x}}{3}
\end{align*}

20. \((cd^8)^3 \cdot (-2c^4d)^4\)

\begin{align*}
a) \quad -2c^{18}d^{12} & \quad b) \quad 16c^d^{10} & \quad c) \quad 16c^{48}d^{36} & \quad d) \quad -2c^7d^7 & \quad e) \quad 16c^{18}d^{34}
\end{align*}

21. If \(\log_{11}(x + 4) = 2\log_{11} 5\), then \(x =

\begin{align*}
a) \quad 6 & \quad b) \quad 1 & \quad c) \quad 25 & \quad d) \quad 14 & \quad e) \quad 21
\end{align*}

22. The inequality \(x^2 - 2x < 8\) is equivalent to which of the following?

\begin{align*}
a) \quad x < 4 \text{ or } x > -2 & \quad b) \quad x < -4 \text{ or } x > 2 & \quad c) \quad -4 < x < 2 & \quad d) \quad -2 < x < 4 & \quad e) \quad x < 4
\end{align*}
23. One root of \(2x^2 - 2x - 1\) is
   a) \(\frac{-1 + \sqrt{3}}{2}\)  
   b) \(\frac{1 - \sqrt{3}}{2}\)  
   c) \(\frac{1 + \sqrt{5}}{2}\)  
   d) 1  
   e) \(\frac{1}{2}\)

24. Leslie is in the center of a circular track of radius 60 feet watching Katrina and Jensine run a race. When Katrina wins, Leslie notices that the angle formed by drawing a line from the center of the track to Katrina and a line from the center of the track to Jensine measures \(\frac{\pi}{6}\) radians. How far, in feet, behind Katrina is Jensine when Katrina wins?
   a) 360  
   b) 60\pi  
   c) 10\pi  
   d) \(\frac{\pi}{3}\)  
   e) \(\frac{\pi}{6}\)

25. Angle \(ABC\) in the figure to the right is a right angle. What is \(x\)?

\[
\begin{align*}
   a) & \ 8 & \ b) & \sqrt{55} & \ c) & \sqrt{96} & \ d) & 55 & \ e) & \frac{5}{11}
\end{align*}
\]

26. If \(\log_2(x^2 - 33) - \log_2 x = 3\), then \(x =\)
   a) \(\sqrt{41}\)  
   b) \(\frac{1 + \sqrt{165}}{2}\)  
   c) 11  
   d) -3 and 11  
   e) \(\frac{1 \pm \sqrt{165}}{2}\)

27. If \(9^x = 3^{1-2x}\), then \(x =\)
   a) \(-\frac{1}{3}\)  
   b) \(-\frac{1}{4}\)  
   c) \(\frac{1}{4}\)  
   d) \(\frac{1}{3}\)  
   e) \(\frac{1}{2}\)

28. In the right triangle \(ABC\) shown at the right, the length of \(AB\) is 5 and the measure of angle \(ACB\) is \(x^\circ\). What is the length of \(AC\)?

\[
\begin{align*}
   a) & \ \frac{6}{\cos x} & \ b) & \ 6 \cos c & \ c) & \ \frac{6}{\sin x} & \ d) & \ \frac{\sin x}{6} & \ e) & \ 6 \sin x
\end{align*}
\]

29. \(\frac{y}{x + 5y} - \frac{4}{9x - 13} =\)
   a) \(\frac{y - 4}{9x^2 + 45xy - 13x - 65y}\)  
   b) \(\frac{9xy + 7y - 4x}{9x^2 + 45xy - 13x - 65y}\)  
   c) \(\frac{9xy - 33y - 4x}{9x^2 + 45xy - 13x - 65y}\)  
   d) \(\frac{9xy + 7y + 4x}{9x^2 + 45xy - 13x - 65y}\)  
   e) \(\frac{y - 4}{-8x + 5y - 13}\)
30. The inequality $x^2 + 8x > -12$ is equivalent to
   
   a) $x > 6$ or $x > 2$  c) $-6 < x < -2$  e) $x < -6$ and $x < -2$
   b) $x < -6$ or $x > -2$  d) $2 < x < 6$

31. If $\log_5 x - \log_5 (x + 2) = \log_5 11$, then $x =$
   
   a) $-\frac{2 + \sqrt{48}}{2}$  b) $\frac{9}{2}$  c) $-\frac{11}{5}$
   d) $-\frac{1}{5}$  e) No solution

32. A circle has circumference $12\pi$. What is the area of the circle?
   
   a) $36\pi$  b) $144\pi$  c) $6\pi$  d) $12\pi$  e) $6\pi^2$

33. Katrina has a circular garden plot of area $A$ square feet. If she increases the diameter by a factor of 2, what is the area of her new garden?
   
   a) $2A$  b) $2A^2$  c) $4A^2$  d) $(A + 2)^2$  e) $4A$

34. If $f(x) = 7x^2 - x + 2$, then $f(c - 4) =$
   
   a) $7c^2 - 57c + 118$  c) $7c^2 - 55c + 118$  e) $7c^2 - c - 2$
   b) $7c^2 - 9c + 22$  d) $7c^2 - 57c + 110$

35. Lines $l_1$ and $l_2$ are parallel. Line $l_3$ is perpendicular to $l_2$. Which of the following is NOT true?
   
   a) Line $l_3$ is perpendicular to $l_1$.
   b) If line $l_4$ is perpendicular to $l_3$, then $l_4$ is parallel to $l_1$.
   c) If line $l_4$ is parallel to $l_3$, then $l_4$ is parallel to $l_1$.
   d) Line $l_1$ intersects $l_3$.
   e) If line $l_4$ is not perpendicular to $l_3$, then $l_4$ intersects $l_2$.

36. In the figure at the right, the length of $AC$ is 12, the length of $DE$ is 9, the length of $BC$ is 20, and the segments $DE$ and $AC$ are parallel. What is the length of $BC$?

   a) 5  b) 15  c) 8  d) 7  e) 4
Welcome to UCR Voice Mail System. With this System, you can receive, reply to, and forward voice, e-mail, and fax messages. The system is accessed and controlled using the keys on your telephone.

**Calling Into the System**

To access the messaging system, dial the systems access number. Depending on whether you access the system from campus or via an external access number, you may need to enter both your mailbox number and your access code. When you log in to the system for the first time, you must set up your mailbox and choose a security code. Your mailbox number is assigned to you by the Communications Department. Write the access numbers for your system and your mailbox number below. Once your message box is set up, add the security code.

**Access Numbers**

Internal Access Number: 26000
External Access Number: (951) 827-6000

**System Setup**

During setup, the system asks you to record your name, record your personal greeting, and set your security code.

**Authentication**

Mailbox Number: 
Security Code: 

(Security Code must be a minimum of 4 digits long)

**Notes:**

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**Key Reminders**

**Main Menu**

Use the following commands after logging in to your account:

1. Listen to new messages
2. Create and send a message
3. Listen to previously saved messages
4. Access the setup options

**Message Playback**

1. Restart message playback
2. Save message
3. Delete message
4. Reply to message
5. Mark message as new
6. Skip back 5 seconds
7. Pause message playback
8. Skip forward 5 seconds

**Common Keys**

The keys on the bottom row of your keypad can have one of several different context sensitive functions. Although similar, these functions vary depending on the options of the menu in which the key is pressed.

- Cancel or back up
- # Skip or move ahead
- 0 Help

1 Only available for messages in your voicemail. Not available for messages in your e-mail inbox.