

Mat 117 Asu Final Exam

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MAT 117 - Fall 2020
PROBLEM SET #1

NAME: [REDACTED]

Directions: All problems must be completed by the due date. Show all work and include appropriate units where applicable. Box all final answers.

Q1: [5 points] The pressure, temperature, and volume of an ideal gas are related by the equation

$$R = \frac{PV}{nT}$$

Solve this equation for T , which is the temperature in degrees Kelvin.

$$\frac{nT}{R} \cdot R = \frac{PV}{nT} \cdot nT \quad \frac{nT}{n} = \frac{PV}{R} \quad \boxed{T = \frac{PV}{nR}}$$

Q2: [5 points] The amount of a certain population with limited resources is given by the equation

$$P = \frac{k}{1 + e^{-t}}$$

Solve this equation for the constant c . Write your answer so that there is no negative exponent.

$$P + P e^{-t} = k \quad -P e^{-t} = k - P \quad \frac{k - P}{e^{-t}} \quad \frac{P e^{-t}}{P} = \frac{(k - P) e^{-t}}{P} \quad \boxed{c = \left[\frac{k}{P} - 1 \right] e^{-t}}$$

Q3: [5 points] The cost of cleaning up pollution in a stream is given by $C = \frac{37000}{100 - p}$, where C is the cost in dollars to clean p percent of the stream. Calculate the cost when $p = 20$.

$$\frac{37000}{100 - 20} = \frac{37000}{80} = \boxed{8462.50}$$

Q4: [5 points] Simplify the following (Hint: factor the top and bottom, then simplify)

$$\frac{3x^2 + 7x + 2}{x^2 + 7x + 6} \rightarrow \frac{(x+3)(x+2)}{(x+2)(3x+1)} = \frac{x+3}{3x+1}$$

Q5: [5 points] Solve for Y

$$5(X + 2Y) = 3X - Y + 2(Z - 4) \\ 5X + 10Y = 3X - Y + 2Z - 8 \\ -5X + 4 \quad -5X + 4 \\ 11Y = -2X + 2Z - 8 \\ \boxed{Y = \frac{-2X + 2Z - 8}{11}}$$

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Understanding the MAT 117 ASU Final Exam

MAT 117 ASU final exam is a significant milestone in the journey of students pursuing their studies at Arizona State University. This course, primarily focused on mathematical concepts and applications, is crucial for those in various fields, particularly in the sciences, engineering, and business. The final exam serves as a comprehensive assessment of the knowledge and skills acquired throughout the semester, and understanding its structure, content, and preparation strategies is essential for success.

Course Overview

MAT 117, often titled "College Algebra," covers a range of topics designed to develop a solid foundation in algebraic principles. The course typically includes the following key areas:

- Functions and their properties
- Linear equations and inequalities
- Polynomial and rational functions
- Exponential and logarithmic functions
- Systems of equations
- Sequences and series

The final exam in MAT 117 is structured to evaluate students' understanding of these concepts and their ability to apply them in problem-solving scenarios.

Exam Structure

The MAT 117 ASU final exam generally consists of a mix of question types that assess various competencies. Understanding the structure of the exam can help students prepare more effectively. The exam may include:

1. **Multiple Choice Questions:** These questions test basic knowledge and understanding of concepts.
2. **Short Answer Problems:** Students are required to solve problems and show their work.
3. **Word Problems:** These require the application of mathematical concepts to real-world scenarios, testing both comprehension and analytical skills.
4. **Graphing Questions:** Students may be asked to interpret or create graphs based on given functions.

Typically, the exam is timed, lasting approximately 2 to 3 hours, and covers material from the entire semester. It is essential for students to manage their time wisely during the exam to ensure they can attempt all questions.

Preparation Strategies

Preparing for the MAT 117 ASU final exam requires a strategic approach. Below are several effective strategies that can help students maximize their performance:

1. Review Course Material

Begin your preparation by revisiting the course syllabus, lecture notes, and textbook. Focus on the following:

- Key definitions and theorems
- Example problems and their solutions
- Practice exercises from the textbook

Make a study schedule that allocates time for each topic based on your comfort level and proficiency.

2. Utilize Practice Exams

Practice exams can be invaluable in preparing for the final. These may be available through the ASU library, course resources, or online platforms. When using practice exams:

- Time yourself to simulate exam conditions.
- Review your answers and understand any mistakes.
- Identify topics where you need more practice.

3. Form Study Groups

Collaborating with classmates can enhance your understanding of complex topics. In study groups:

- Engage in discussions to clarify doubts.
- Teach each other different concepts.
- Work through practice problems together.

Study groups can provide motivation and help maintain accountability.

4. Seek Help from Instructors

Don't hesitate to reach out to your instructor or teaching assistants for additional support. They can offer insights on:

- Key topics to focus on for the exam.
- Clarification on confusing concepts.
- Resources for additional practice.

5. Leverage Online Resources

There are numerous online resources that can supplement your studies. Some valuable platforms include:

- Khan Academy: Offers instructional videos and practice exercises.
- Wolfram Alpha: Useful for checking solutions and understanding complex problems.
- Mathway: Provides step-by-step solutions for various math problems.

Utilizing these resources can reinforce your understanding and provide alternative explanations for difficult concepts.

Exam Day Tips

The day of the MAT 117 ASU final exam can be stressful. Here are some tips to help you stay calm and perform your best:

1. Get Adequate Rest

Ensure you get a good night's sleep before the exam. A well-rested mind is crucial for optimal performance.

2. Eat a Healthy Breakfast

A balanced meal can provide the energy you need to stay focused. Include protein, whole grains, and fruits for sustained energy levels.

3. Arrive Early

Arriving at the exam location early can help you settle down and alleviate anxiety. Use this time to review key concepts or relax.

4. Read Instructions Carefully

At the start of the exam, take time to read the instructions and each question carefully before answering. This can help prevent simple mistakes.

5. Manage Your Time

Keep an eye on the clock and allocate your time wisely. If you find a question challenging, move on and return to it later if time permits.

Post-Exam Reflection

After completing the MAT 117 ASU final exam, take a moment to reflect on your performance. Consider the following:

- What went well, and what could you improve for future exams?
- How did your preparation strategies impact your performance?
- Did you effectively manage your time during the exam?

This reflection can provide valuable insights for future academic endeavors and help you develop better study habits.

Conclusion

The MAT 117 ASU final exam is a crucial component of the College Algebra course, testing students

on a variety of mathematical concepts. By understanding the exam structure, employing effective preparation strategies, and maintaining a calm demeanor on exam day, students can enhance their chances of success. Remember, consistent study and practice throughout the course can significantly ease the stress of preparing for the final exam. Good luck!

Frequently Asked Questions

What topics are typically covered in the MAT 117 final exam at ASU?

The MAT 117 final exam at ASU usually covers topics such as functions, graphing, polynomial equations, exponential and logarithmic functions, and applications of these concepts.

How can I prepare effectively for the MAT 117 final exam?

To prepare effectively for the MAT 117 final exam, review lecture notes, complete practice problems, utilize online resources like Khan Academy, and form study groups with classmates.

Are there any review sessions offered for the MAT 117 final exam at ASU?

Yes, ASU often offers review sessions for MAT 117 prior to the final exam. Check with your instructor or the math department for specific dates and times.

What resources are available for MAT 117 students at ASU?

MAT 117 students at ASU have access to resources such as tutoring centers, online forums, and math help desks. Additionally, the ASU library provides study materials and textbooks.

What is the format of the MAT 117 final exam?

The MAT 117 final exam typically consists of multiple-choice questions, short answer questions, and problem-solving tasks that assess students' understanding of the course material.

How much does the final exam weigh towards the overall grade in MAT 117?

The final exam usually constitutes a significant portion of the overall grade in MAT 117, often around 20-30%, but this can vary by instructor.

When is the MAT 117 final exam scheduled for this semester at ASU?

The schedule for the MAT 117 final exam can vary each semester. Check the ASU academic calendar or your course syllabus for the specific date and time.

What should I do if I have a conflict with the MAT 117 final exam date?

If you have a conflict with the MAT 117 final exam date, contact your instructor as soon as possible to discuss potential options such as rescheduling or alternative assessments.

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