

## Trigonometry Semester Exam Objectives

Chapter 4,5,6,8

*25 questions, multiple choice*

- Find the radian measure of the central angle of a circle
- Use a calculator to evaluate the trigonometric function
- Use a given function values and the trigonometric identities to find an indicated trigonometric function
- Find the exact value of the given trigonometric function
- Find a reference angle
- Determine the period and amplitude of a trig equation
- Use a graphing calculator to graph a function
- Evaluate an expression without using a calculator
- Use an inverse function to write  $\theta$  as a function of  $x$
- Use the angle of elevation or depression to solve a problem
- Evaluate a trig function given the value of another
- Verify an identity
- Solve a trig equation
- Find the exact value of the given expression using a sum or difference formula
- Find the exact solutions of the given equation
- Use the Law of Sines to solve the triangle
- Use the Law of Cosines to solve the triangle
- Find the magnitude of vector
- Find the dot product of vectors
- Write the complex number in trigonometric form
- Determine the order of a matrix
- Add or subtract matrices
- Find the inverse of the matrix
- Find the determinant of a matrix
- Use matrices to solve a system of linear equations