QUIZ 8

This quiz covers sections 2.7, 2.8 and 3.1.

PLEASE READ CAREFULLY

NO CALCULATORS of any type allowed on this quiz

Imagine that I have no idea of what you are doing and you have to explain everything!! This applies to all the quizzes and of course your exams. Not explicit answers will not take full marks!!

Exercise 1: Determine whether the following functions are inverses of each other:

$f(x) = 3x + 8, \ g(x) = \frac{x-8}{3}$ (2 points)

Exercise 2: Determine whether the following functions are inverses of each other:

$f(x) = x^2, g(x) = \sqrt{x}$ (3 points)

Exercise 3: Write the standard form of the equation of the circle with center (2, -1) and radius r=4

(1 point)

Exercise 4: Find the midpoint of the line segment with endpoints: (-2,-1) and (-8,6)

(1 point)

Exercise 5: Without graphing the function $f(x) = -2x^2 - 12x + 3$,

a) Determine whether the function has a minimum or a maximum value

b) Find the minimum or maximum value and determine where it occurs

c) Identify the functions domain and its range.

(3 points)