Math 110-003 (Fall 2011)

Exam I

September 16, 2011

Name:

(30 points) The function f below is piecewise-wise defined as:

$$f(x) = \begin{cases} 3x + 5, & x < 2 \\ 3, & x = 2 \\ x^2 + 7, & x > 2 \end{cases}$$

- a) Find $\lim_{x\to 2^+} f(x)$ and $\lim_{x\to 2^+} f(x)$ and decide if the limit exist as x approaches 2.
- b) Explain briefly whether f is continuous at the point 2.
- 2. (30 points) a) Find the center and radius of the circle given by $4x^2 + 4y^2 + 24x 32y = 0$
 - b) Find the equation of the straight line that is perpendicular to the line 2x+3y = 4 and passes through (4,0).
- 3. (30 points) The following functions are one-to-one, find their inverses

a)
$$f(x) = \sqrt{2x - 3}$$

b)
$$f(x) = 3x^3 + 7$$

- 4. (30 points) a) Using the limit definition, find the derivative of $f(x) = \sqrt{x+3}$
 - b) Use the sum, difference and constant multiple rule to find the derivative of

(i)
$$f(x) = \sqrt[3]{x^2} + \frac{2}{x^2}$$

(ii)
$$f(x) = 7 - 2x + \frac{1}{2}x^4$$

5. (30 points) Evaluate the following limits analytically

a)
$$\lim_{x\to 1} \frac{x^2 + x - 2}{2x - 2}$$

b)
$$\lim_{x\to 5} \frac{x^2-25}{2x-10}$$

c) (bonus)
$$\lim_{x\to -5} \frac{32x^3 + 4000}{x+5}$$

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