## Math 156 PRECALCULUS Fall 2015

## Quiz 2 – Retake

Tuesday, September 12, 2015

Name:\_\_\_\_\_

This quiz has 8 problems worth a total of 30 points. It is TWO SIDED.

1. (4 points) Simplify the compound fractional expression:  $\frac{1 + \frac{1}{x+3}}{1 - \frac{1}{x+3}}$ .

Answer:

2. (4 points) Simplify the rational expression  $\frac{y^2-2y}{y^2-4}$ .

Answer:

3. (4 points) Find the domain of  $\frac{2}{\sqrt{5-t}}$ .

Answer:

4. (4 points) Find all real solutions of the equation  $x^2 = \frac{3}{4}x - \frac{1}{8}$  by completing the square.

Answer:

5. (3 points) Find all real solutions to |17-2x|=5.

Answer:

6. (4 points) Find all real solutions to  $x + \sqrt{4x + 5} = 4$ .

Answer:

7. (4 points) A pasture is eight times longer than it is wide. Its area is 7200 square feet. How wide it the pasture?

Answer:

8. (3 points) Simplify the expression  $\sqrt{18a^2 + 36a^3}$ , assume a > 0.

Answer: