Math 156 PRECALCULUS Fall 2015

Quiz 3 – Version One

Thursday, September 24, 2015

Name:_____

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

1.	. (3 points) Solve the linear inequality $-3 \le 4 - 5x < 9$ notation.	and express the solutions using interval
		Answer:
2.	. (4 points) Solve the absolute value inequality $ x-5 \ge$ notation.	8 and express the answer using interval
		Answer:
3.	. (4 points) Solve the nonlinear inequality $(x+2)(x-3)$ < notation.	< 0 and express the solution using interval
		Answer:
4.	. (2 points each) Given the pair of points $(-4,6)$ and $(2,5)$, and (b) the midpoint of the segment that joins them.	, (a) find the distance between the points
		distance:

midpoint:

5. (3 points) Find the center and radius of the circle $(x-1)^2 + (x+10)^2 = 9$.

center:

radius:

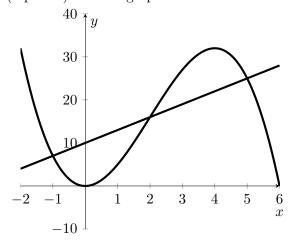
6. (4 points) Find an equation of the line through the points (-2,6) and (4,5).

Answer:

7. (4 points) Find an equation of the line through the point (1,2) perpendicular to the line y=3x+2.

Answer: _____

8. (4 points) Use the graphs below to solve the inequality $3x + 10 \le 6x^2 - x^3$.



Answer: