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Name: _

1. (5 points) Find all real solutions of $\frac{-10x}{x^2+25} = 1$.

1. _____

2. (5 points) Find the distance between (3, -2) and (-4, -5).

2. _____

3. (5 points) Find an equation of the line passing through the points (-1, -2) and (4, 3).

3. _____

4. (5 points) Solve the inequality $\frac{2}{5}x + 1 < \frac{1}{5} - 2x$. Express your solution in interval notation.

5.	(5 points)	Find all real solutions x of $x^5 = 5x^3$.	
6.	(5 points)	Find all real solutions w of $w^2 + 13w = 30$.	5
7.	(5 points)	Find the center and radius of the circle given by the equation $x^2 + y^2 +$	6 $8x + 5 = 0$.
8.	(5 points)	Make a table of values and sketch the graph of $y = 2x^2 - 3$.	7

9.	(5 points)	Solve $4(y - \frac{1}{2}) - y = 6(5 - y)$ for y.	
10.	(5 points)	Find the $x-$ and $y-$ intercepts of the graph of $y=x^2-5x+6$.	9
11.	(5 points)	Find an equation of the circle with center $(-1,5)$ and passes through	10 the point $(-4, -6)$.
12.	(5 points)	Find an equation of the line with y-intercept 6 and parallel to the line	$11. \ \ \ \ \ \ \ \ \ \ \ \ \ $

12. _____