You hav 50 min.	Answer each	non-graph c	nuestion	neatly	on the	line r	rovided
Tou may 50 mm.	THIS WELL CACH	non-graph o	ucsuon	ncaury	OH OHC	mic k	noviaca.

Name

1. (5 points) Find all real solutions z of z(z-3)=5.

- 1. _____
- 2. (5 points) Find an equation of the line with x-intercept 1 and y-intercept -3.

2. _____

3. (5 points) Find all real solutions to $x^2 - 4x + 21$.

- 3
- 4. (5 points) Solve the inequality $x^2 + 2x > 3$. Express your solution in interval notation.

5.	(5)	points)) Find	all	real	solutions	\boldsymbol{x}	of	 '8x	- 1	=	3.

5. _____

6. (5 points) Find all real solutions w of $w - \frac{3}{2} > \frac{1}{2}w$. Express your solution using interval notation.

7. (5 points) Find the center and radius of the circle given by the equation $x^2 + y^2 - \frac{1}{2}x + \frac{1}{2}y = \frac{1}{8}$.

8. (5 points) Make a table of values and sketch the graph of
$$y=|x-3|.$$

0. (0 F)	9.	(5 points)	Solve F	$=G\frac{mM}{r^2}$	for m
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9. _____

10. (5 points) Find the x- and y- intercepts of the graph of 2x-4y=18.

11. (5 points) Solve
$$\frac{6}{x-3} = \frac{5}{x+4}$$
 for x .

12. (5 points) Find an equation of the line passing through
$$(-1,2)$$
 and parallel to the line $x=5$.