Unit 1 In Class Test Review

Function Notation:

(c) $f(x) = 3x^{2} - x$	$2f$ f(x) = $\frac{2}{3}$	46) $f(x) = \sqrt{2x+3}$
f(-2) =	×	f(3) =
	$f(\alpha + i) =$	

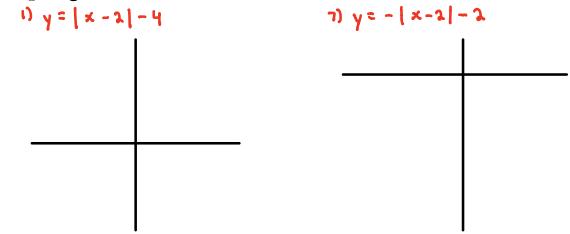
Systems of Equations:

Substitution	Graphing		
1) $4x + 3y = -8$ -8x + y = -12	10)	X= 7	y=-x+9
Elimination			
6) $-15x + 9y = 27$ - 5x - y = 17			

System of Inequalities:

4) y 2	2 ×-3	y≥ -x-1	5)	x ≤ -3	5x + 3y 2 -9	$\rightarrow \gamma \stackrel{2}{\rightarrow} \frac{-s}{3} \times -3$
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Graphing Absolute Value Functions:



Solving Absolute Value Inequalities:

12) 1p1-3 40 [7] 1p-8+10>22





Piecewise Functions:

$$f(x) = \begin{cases} -\lambda | x + 1 |, x \le 1 & 4 \end{pmatrix} f(10) = \\ 3, 1 \le x \le 3 & 5 \end{pmatrix} f(x) = \\ 6 - \lambda x, x \ge 3 & 6 \end{pmatrix} f(0) = \end{cases}$$

11). Graph

$$f(x) = \begin{cases} 3x + 1\lambda & x \le -3 \\ |x| & -3 < x < 3 \\ -3x + 1\lambda & x \ge 3 \end{cases}$$

Inverse Functions:

9)
$$f(x) = 3[x - 3]$$
 11) $f(x) = \lambda x^{3} + 3$ 17) $f(x) = -1 - \frac{1}{5}x$

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Function Compositions:

 $f(x) = \lambda x - 1$ g(x) = 3x $h(x) = x^{2} + 1$ s) h(g(f(s))) s) $h(x - \lambda)$

$$f(x) = -3x + 7$$
 $g(x) = \lambda x^{2} - 8$
11). (g o f)(x) = g(f(x))

Extra Problems:

