

*Turn in Graded HW 1 now  
with work stapled to BACK.  
Quiz will follow.*

*Leave Piecewise HW due out on  
desk for me to check. We must  
use graph paper for any graphs.*

Sep 17-9:21 PM

Wed OCC Registration deadline is Wednesday

Share current roster

Wed Open House 6-8pm

Tues 9/24 1st Math League Meeting in LGR 2:30pm

Sep 16-9:13 PM

Homework Answers

Pg 133 - 134

50.  $f(-4) = 12$   
 $f(-2) = 4$   
 $f(4) = 7$   
 $f(6) = -2$

52.  $f(x) = \begin{cases} -\frac{1}{3}x + 2, & x \leq 0 \\ x - 5, & x > 0 \end{cases}$

54.  $f(x) = \begin{cases} 4, & x \leq -2 \\ x + 1, & -2 < x < 3 \\ -x, & x \geq 3 \end{cases}$

70.  $D: \{x | x \in \mathbb{R}\}$   
 $R: \{y | y = -3 \text{ or } y \geq 0\}$

72.  $D: \{x | x \in \mathbb{R}\}$   
 $R: \{y | y = -2 \text{ or } y \geq 0\}$

74.  $D: \{x | x \geq -4\}$   
 $R: \{y | -2 \leq y \leq 4\}$

$f(x) = \begin{cases} -3, & \text{for } x < 0 \\ x, & \text{for } x \geq 0 \end{cases}$

$f(x) = \begin{cases} 13, & \text{for } x < 3 \\ -2, & \text{for } x \geq 3 \end{cases}$

$f(x) = \begin{cases} -2x - 4, & \text{for } -4 \leq x \leq -1 \\ x - 1, & \text{for } -1 \leq x < 2 \\ 2, & \text{for } x \geq 2 \end{cases}$

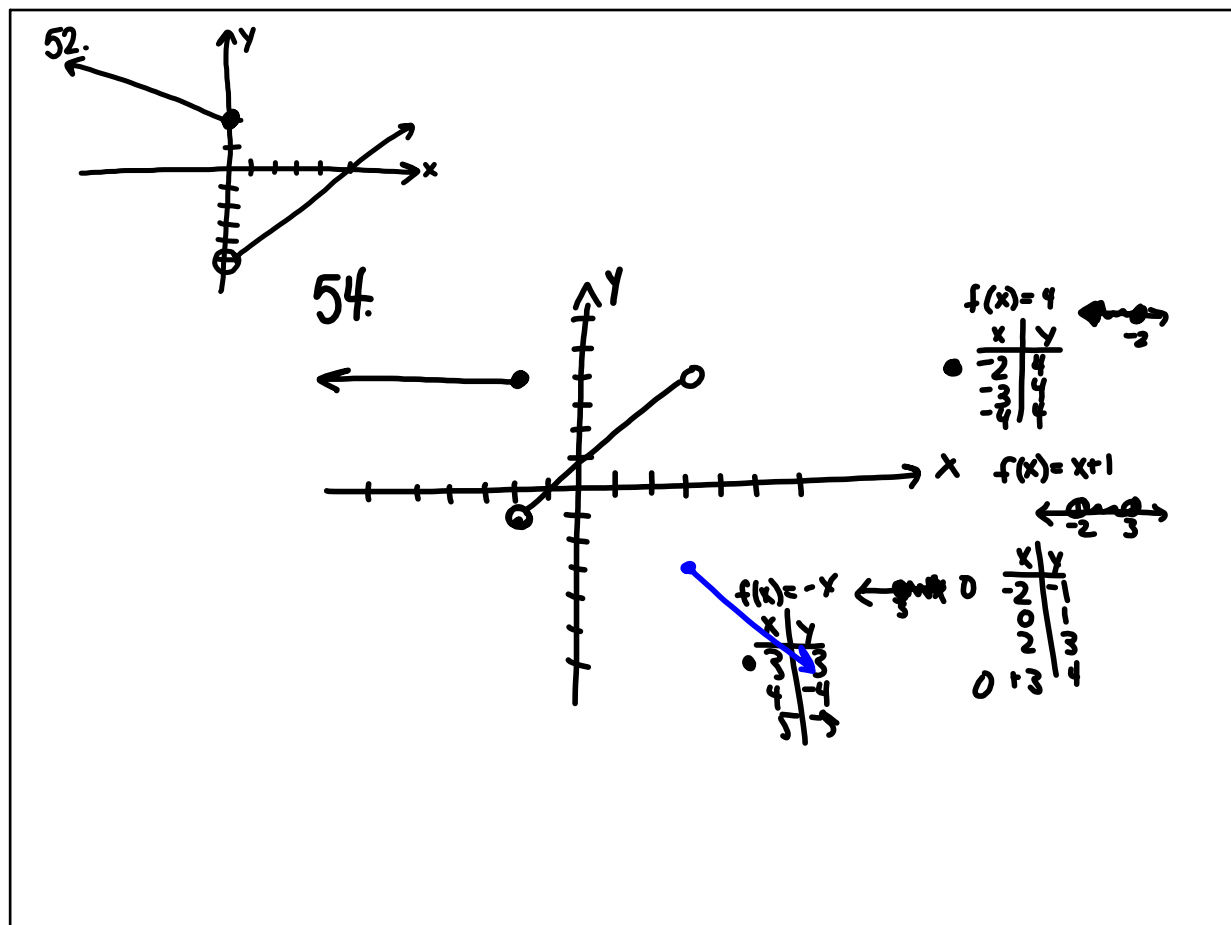
C1 Ditto 2:

3.  $11x - 9y - 23 = 0$   
 $6x - 5y + 4 = 0$   
 $y + 2 = \frac{6}{5}(x + 1)$

$\frac{6+5}{7+2} = \frac{11}{9}$   
 $(y-6) = \frac{11}{9}(x-7)$   
 $9y - 54 = 11x - 77$   
 $9y = 11x - 23$

$-5x + 6y +$   
 $-5x = 6y + 18$   
 $m = -\frac{5}{6} \perp m = \frac{6}{5}$   
 $y + 2 = \frac{6}{5}(x + 1)$

Sep 8-9:04 PM



Sep 26-12:17 PM

$$50) f(x) = \begin{cases} -5x - 8 & \text{for } x < -2 \\ \frac{1}{2}x + 5 & \text{for } -2 \leq x \leq 4 \\ 10 - 2x & \text{for } x > 4 \end{cases}$$

$$f(-4) = -5(-4) - 8 = 12$$

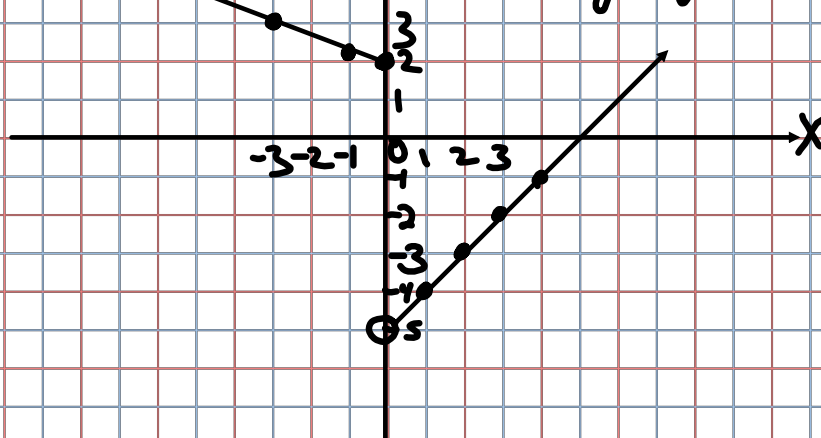
$$f(-2) = \frac{1}{2}(-2) + 5 = 4$$

Sep 26-10:02 AM

$$52) f(x) = \begin{cases} -\frac{1}{3}x + 2 & \text{for } x \leq 0 \\ x - 5 & \text{for } x > 0 \end{cases}$$

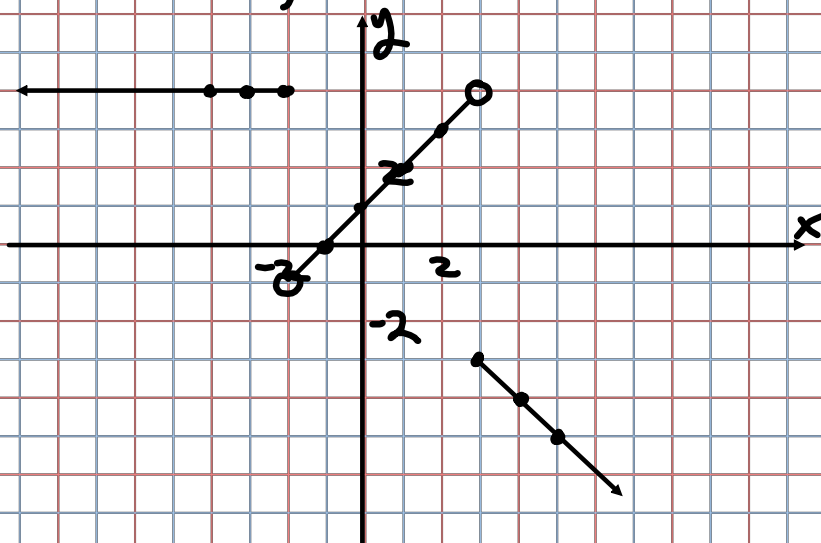
$$D: \{x | x \in \mathbb{R}\}$$

$$R: \{y | y > -5\}$$



Sep 26-8:11 AM

$$54) f(x) = \begin{cases} 4, & \text{for } x \leq -2 \\ x+1, & \text{for } -2 < x < 3 \\ -x, & \text{for } x \geq 3 \end{cases}$$



Sep 26-8:11 AM

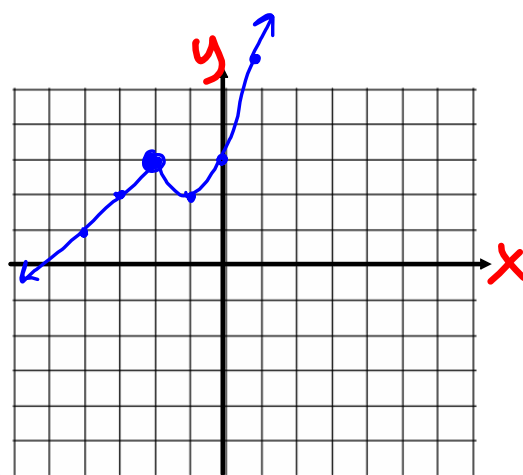
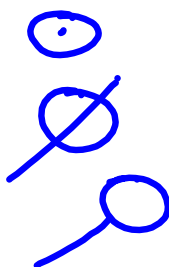
$$f(x) = \begin{cases} x+5, & x < -2 \\ x^2+2x+3, & x \geq -2 \end{cases}$$

$$y = x + 5$$

| x  | y |
|----|---|
| -2 | 3 |
| -3 | 2 |
| -4 | 1 |

$$y = x^2 + 2x + 3$$

| x  | y |
|----|---|
| -2 | 3 |
| -1 | 2 |
| 0  | 3 |
| 1  | 6 |



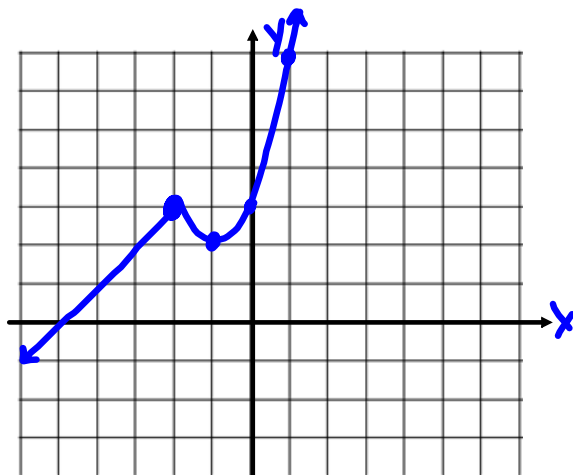
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1.

$$f(3) = 18$$

$$f(-4) = 1$$

$$f(-2) = -3$$



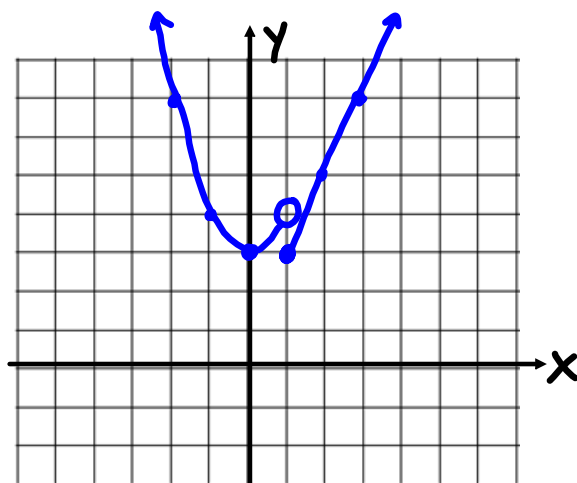
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2.

$$f(-2) = 7$$

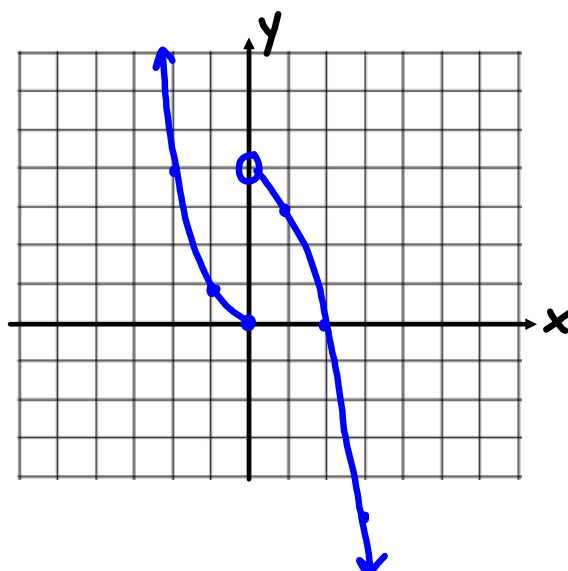
$$f(1) = 3$$

$$f(3) = 7$$



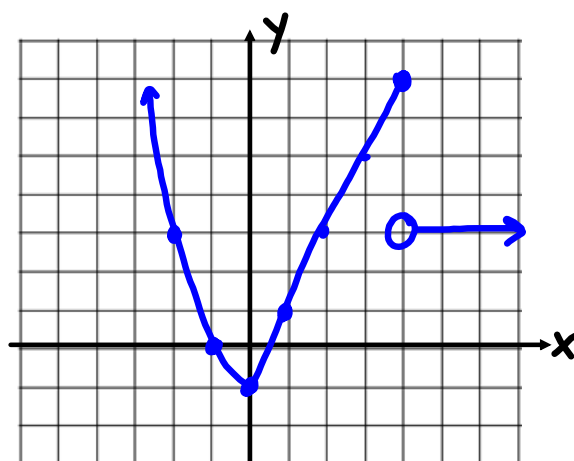
Sep 22-10:17 AM

3.  
 $f(-4) = 16$   
 $f(0) = 0$   
 $f(3) = -5$



Sep 22-10:17 AM

4.  $f(-2) = 3$   
 $f(0) = -1$   
 $f(5) = 3$



Sep 22-10:17 AM

$$5. f(x) = \begin{cases} x & \text{if } x < 0 \\ \frac{5}{2}x & \text{if } x \geq 0 \end{cases}$$

$$6. f(x) = \begin{cases} x+6 & \text{if } x \leq -2 \\ -2 & \text{if } x > -2 \end{cases}$$

$$7. f(x) = \begin{cases} x & \text{if } x < -1 \\ x+3 & \text{if } -1 \leq x \leq 1 \\ x+1 & \text{if } x > 1 \end{cases}$$

$$8. f(x) = \begin{cases} 5 & \text{if } x \leq -1 \\ -x^2 & \text{if } -1 < x \leq 2 \\ -2x+7 & \text{if } x > 2 \end{cases}$$

Sep 22-10:24 AM

Sep 17-9:21 PM