

Homework Answers

Pg 133 - 134

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

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

70. $D: \{x | x \in \mathbb{R}\}$
 $R: \{y | y = -3 \text{ or } y \geq 0\}$
 $f(x) = \begin{cases} -3, & \text{for } x < 0 \\ x, & \text{for } x \geq 0 \end{cases}$

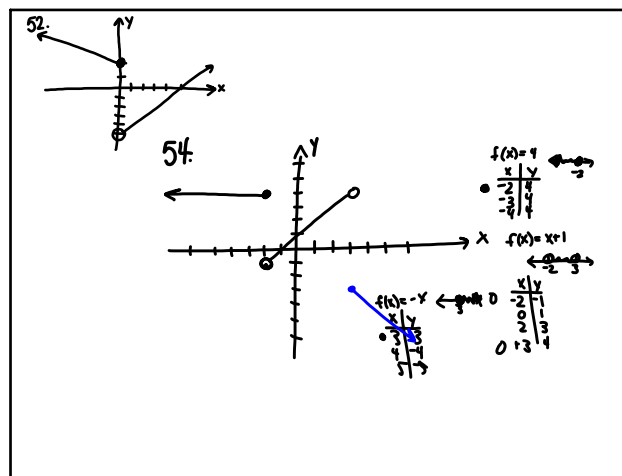
72. $D: \{x | x \in \mathbb{R}\}$
 $R: \{y | y = -2 \text{ or } y \geq 0\}$
 $f(x) = \begin{cases} |x|, & \text{for } x < 3 \\ -2, & \text{for } x \geq 3 \end{cases}$

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

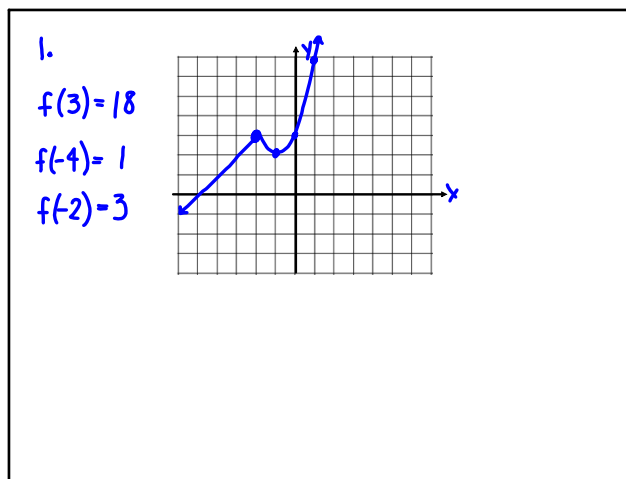
C1 Ditto 2:

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

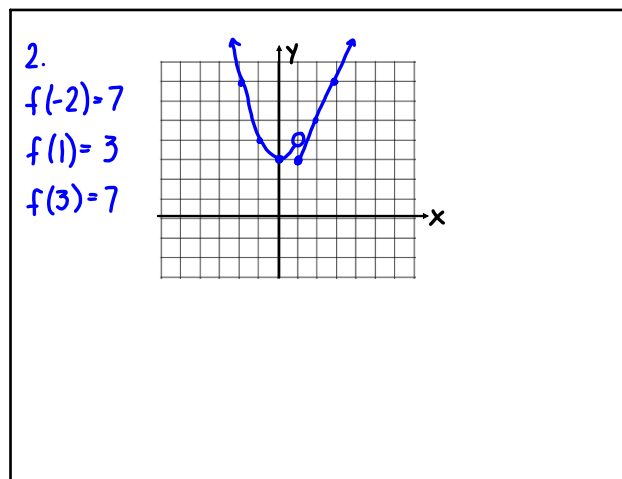
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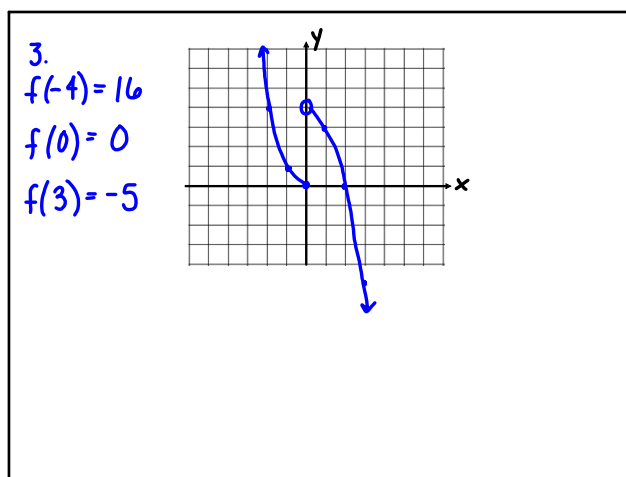
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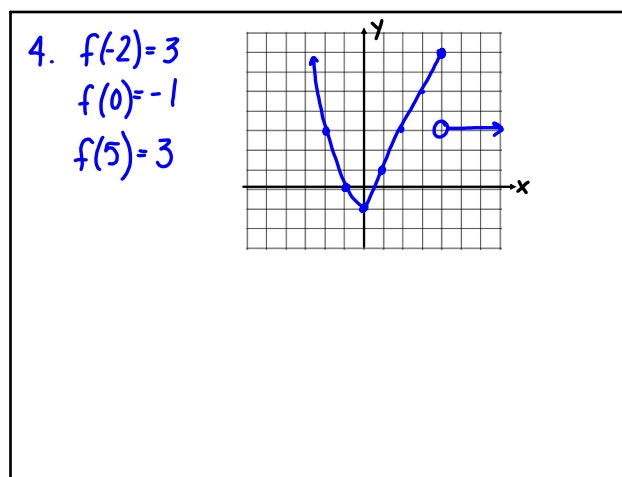
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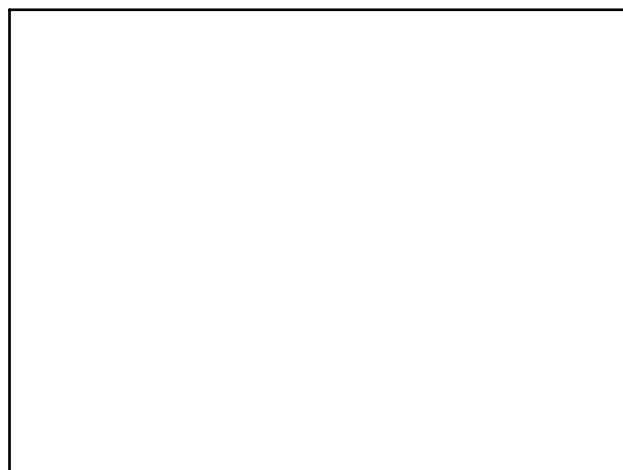
$$5. f(x) = \begin{cases} x & \text{if } x < 0 \\ \frac{5}{2}x & \text{if } x \geq 0 \end{cases}$$

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

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

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

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