

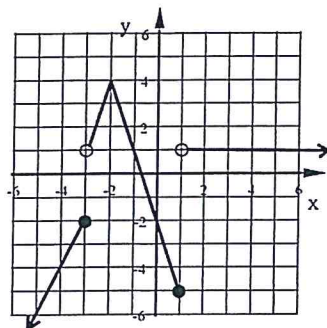
1. Use this function $f(x) = \begin{cases} -7 & \text{if } x < -3 \\ 2x^2 - 5x & \text{if } -3 \leq x < 2 \\ 5x - 8 & \text{if } x \geq 2 \end{cases}$

a. Find $f(-2)$

b. Find $f(13)$

c. Find $f(2)$

2. Use this graph.



a) Find $f(-5)$

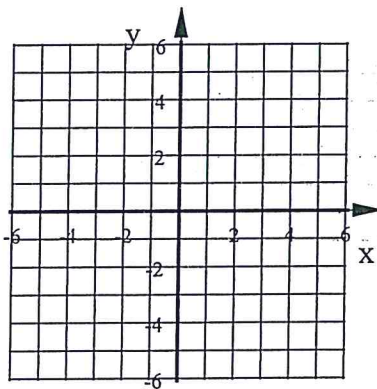
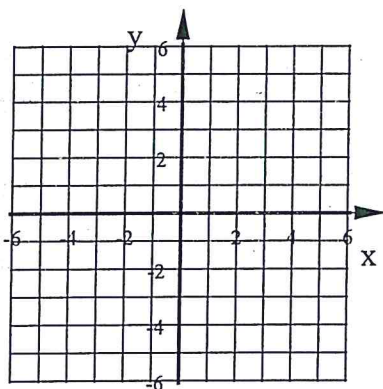
b) Find $f(0)$

c) Find $f(9)$

For 3 and 4, graph the given piecewise functions.

3. $g(x) = \begin{cases} -2|x+4|+6 & \text{if } x \leq -2 \\ x+2 & \text{if } x > -2 \end{cases}$

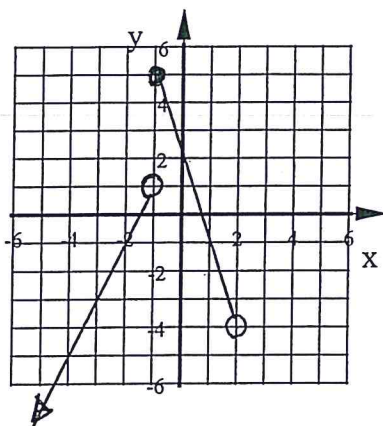
4. $h(x) = \begin{cases} -5 & \text{if } x < -3 \\ 2x+1 & \text{if } -3 \leq x < 2 \\ -3x+11 & \text{if } x \geq 2 \end{cases}$



For 5 and 6, write the rule for each piecewise function.

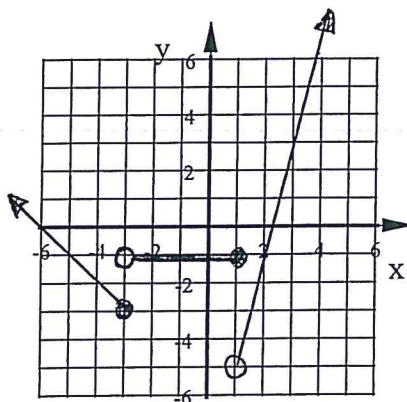
5.

$f(x) =$



6.

$f(x) =$



1. Use this function $f(x) = \begin{cases} -7 & \text{if } x < -3 \\ 2x^2 - 5x & \text{if } -3 \leq x < 2 \\ 5x - 8 & \text{if } x \geq 2 \end{cases}$

a. Find $f(-2)$

$2(-2)^2 - 5(-2) = 18$

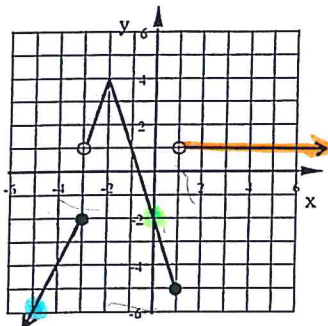
b. Find $f(13)$

$5(13) - 8 = 57$

c. Find $f(2)$

$= 2$

2. Use this graph.



a) Find $f(-5)$

$= -6$

b) Find $f(0)$

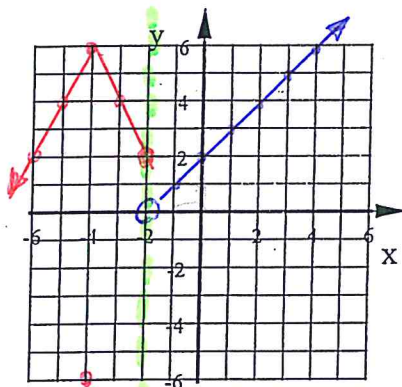
$= -2$

c) Find $f(9)$

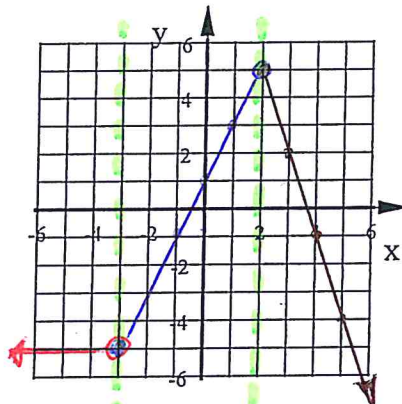
$= 1$

For 3 and 4, graph the given piecewise functions.

3. $g(x) = \begin{cases} -2|x+4|+6 & \text{if } x \leq -2 \\ x+2 & \text{if } x > -2 \end{cases}$



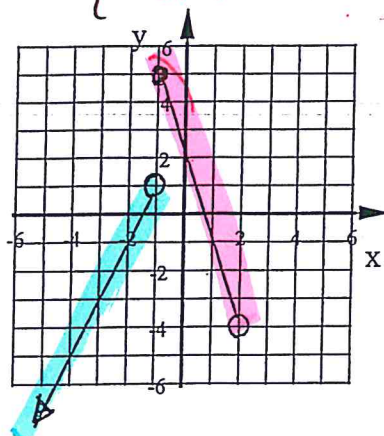
4. $h(x) = \begin{cases} -5 & \text{if } x < -3 \\ 2x+1 & \text{if } -3 \leq x < 2 \\ -3x+11 & \text{if } x \geq 2 \end{cases}$



$\frac{x}{y}$
2/5 plot this point then use the slope of $-\frac{3}{1}$

For 5 and 6, write the rule for each piecewise function.

5. $f(x) = \begin{cases} 2x+3 & \text{if } x < -1 \\ -3x+2 & \text{if } -1 \leq x < 2 \end{cases}$



6. $f(x) = \begin{cases} -x-6 & \text{if } x \leq -3 \\ -1 & \text{if } -3 < x \leq 1 \\ 4x-9 & \text{if } x > 1 \end{cases}$

