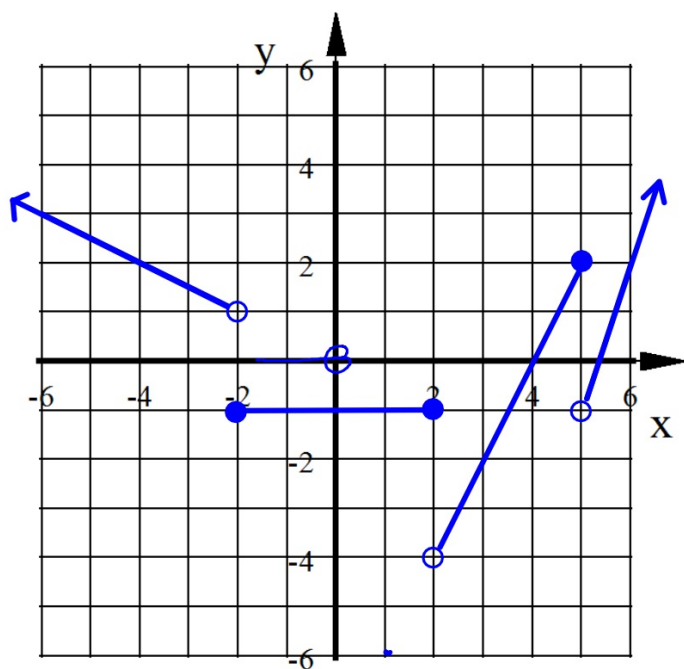




Write the rule for this piecewise function.

$$f(x) = \begin{cases} -\frac{1}{2}x, & \text{if } x < -2 \\ -1, & \text{if } -2 \leq x \leq 2 \\ 2x - 8, & \text{if } 2 < x \leq 5 \\ 3x - 16, & \text{if } x > 5 \end{cases}$$

Use these functions:

$$f(x) = 2x^2 - 6x$$

Handwritten calculation: $8 - 12 = -4$

$$g(x) = 7 - 2x$$

Find $6f(2) + 8g(5)$

$$6(-4) + 8(-3)$$

$$-24 - 24 =$$

$$\boxed{-48}$$

$$7 - 10 = -3$$