

7. Given $y = -3 + 5x - x^2$ and $q = -2$, which of the following is correct:

$$y+q = -x^2 + 6x - 3$$

$$\frac{y+q}{y-q} = \frac{x^2 - 5x + 5}{x^2 - 4x - 3}$$

$$y \times q = -x(x^2 - 5x + 3)$$

$$y - q = -(x - 3)(x - 1)$$

$$\frac{y+q}{y-q} = \frac{x^2 - 6x + 3}{x^2 - 5x + 1}$$

$$y \times q = -x(x^2 - 5x - 3)$$

$$y - q = -x^2 + 4x + 3$$

$$y + q = -x^2 + 6x + 3$$

$$\frac{y+q}{y-q} = \frac{x^2 - 5x + 5}{x^2 - 5x + 1}$$

$$y + q = -x^2 + 5x - 5$$

$$y - q = -x^2 + 5x - 1$$

$$y \times q = 2(x^2 - 5x + 3)$$

$$y + q = -x^2 + 5x + 1$$

$$y \times q = 2(x^2 - 5x - 3)$$

$$y - q = -x^2 + 5x + 5$$

$$\frac{y+q}{y-q} = \frac{x^2 - 6x - 3}{x^2 - 5x + 1}$$

Solution