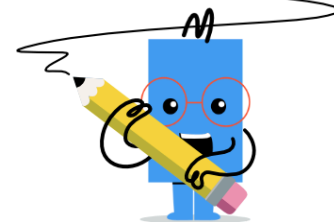




Quadratics Vertex Form - Equation to Range



1 What would the range of this function be?

$$y = -1.5(x - 3)^2 - 3$$

- | | | | |
|---|-----------------|---|----------------|
| A | $[-3, 3]$ | B | $(-\infty, 3]$ |
| C | $(-\infty, -3]$ | D | $[-1.5, 3]$ |

2 What would the range of this function be?

$$y = 0.5(x - 2)^2 + 4$$

- | | | | | | | | |
|---|---------------|---|-----------------|---|------------|---|---------------|
| A | $[4, \infty)$ | B | $[0.5, \infty)$ | C | $[0.5, 2]$ | D | $[2, \infty)$ |
|---|---------------|---|-----------------|---|------------|---|---------------|

3 What would the range of this function be?

$$y = 1.5(x + 3)^2 - 2$$

- | | | | |
|---|----------------|---|-----------------|
| A | $[-2, -3]$ | B | $(-\infty, -3]$ |
| C | $[-3, \infty)$ | D | $[-2, \infty)$ |

4 What would the range of this function be?

$$y = 1.5(x - 1)^2 + 1$$

- | | | | | | | | |
|---|----------|---|-----------------|---|------------|---|---------------|
| A | $[1, 1]$ | B | $[1.5, \infty)$ | C | $[1.5, 1]$ | D | $[1, \infty)$ |
|---|----------|---|-----------------|---|------------|---|---------------|

5 What would the range of this function be?

$$y = (x - 3)^2 + 3$$

- | | | | | | | | |
|---|---------------|---|----------|---|----------|---|---------------|
| A | $[3, \infty)$ | B | $[1, 3]$ | C | $[3, 3]$ | D | $[1, \infty)$ |
|---|---------------|---|----------|---|----------|---|---------------|

6 What would the range of this function be?

$$y = -0.5(x + 1)^2 - 3$$

- | | | | |
|---|-----------------|---|--------------|
| A | $(-\infty, -1]$ | B | $[-3, -1]$ |
| C | $(-\infty, -3]$ | D | $[-0.5, -1]$ |

7 What would the range of this function be?

$$y = -1(x + 2)^2 - 3$$

- | | | | |
|---|-----------------|---|-----------------|
| A | $(-\infty, -1]$ | B | $[-3, -2]$ |
| C | $(-\infty, -3]$ | D | $(-\infty, -2]$ |

8 What would the range of this function be?

$$y = -0.5(x + 1)^2 - 4$$

- | | | | |
|---|-----------------|---|-------------------|
| A | $(-\infty, -4]$ | B | $(-\infty, -1]$ |
| C | $[-0.5, -1]$ | D | $(-\infty, -0.5]$ |