

How to Identify Domain and Range from a Graph:

Domain: Look for “x” values

Range: Look for “y” values

Identify any endpoints

○ Endpoint: use < or >

● Endpoint: use ≤ or ≥

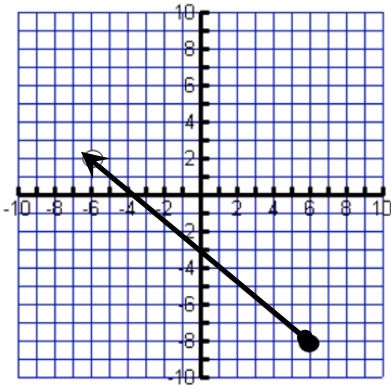
Test-Taking Strategies:

Eliminate wrong variable answer choices.

Eliminate wrong endpoint value answer choices.

Check a point

1.

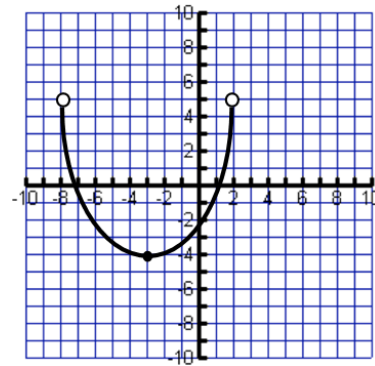


What are the domain and range of this function?

Domain: _____ Range: _____

- | | |
|----------------|----------------|
| A. $x \geq -8$ | F. $y \leq 6$ |
| B. $x \geq 6$ | G. $y \geq 6$ |
| C. $x \leq 6$ | H. $y \leq -8$ |
| D. $x \leq -8$ | J. $y \geq -8$ |

2.

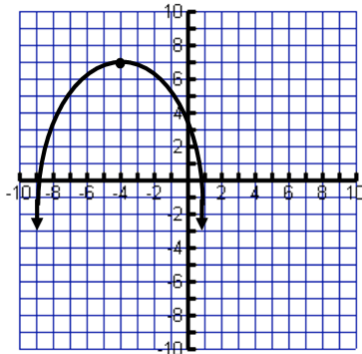


What are the domain and range of this function?

Domain: _____ Range: _____

- | | |
|-----------------------|-----------------------|
| A. $-4 \leq x < 5$ | F. $-4 \leq y < 5$ |
| B. $-4 < x \leq 5$ | G. $-4 < y \leq 5$ |
| C. $-8 < x < 2$ | H. $-8 < y < 2$ |
| D. $-8 \leq x \leq 2$ | J. $-8 \leq y \leq 2$ |

3.

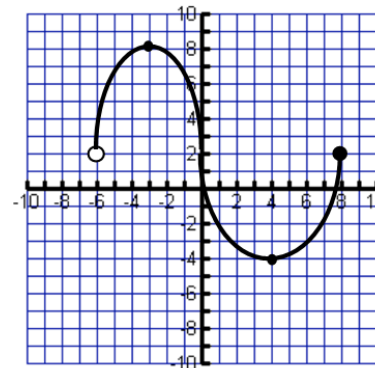


What are the domain and range of this function?

Domain: _____ Range: _____

- | | |
|-----------------------|-----------------------|
| A. $-9 \leq x \leq 1$ | F. $-9 \leq y \leq 1$ |
| B. $x \leq 7$ | G. $y \leq 7$ |
| C. All Real Numbers | H. All Real Numbers |
| D. $x < 7$ | J. $y < 7$ |

4.



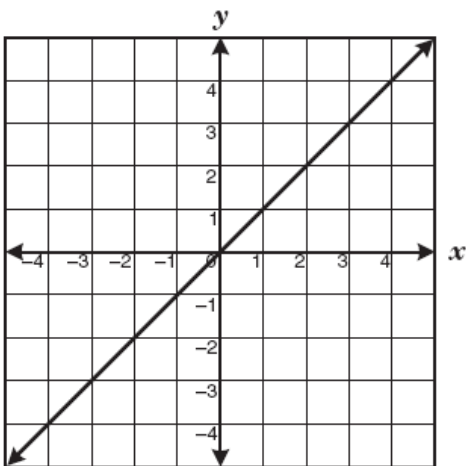
What are the domain and range of this function?

Domain: _____ Range: _____

- | | |
|-----------------------|-----------------------|
| A. $-6 \leq x < 8$ | F. $-6 \leq y < 8$ |
| B. $-6 < x \leq 8$ | G. $-6 < y \leq 8$ |
| C. $-4 < x < 8$ | H. $-4 < y < 8$ |
| D. $-4 \leq x \leq 8$ | J. $-4 \leq y \leq 8$ |

5. Compare/Contrast the Linear Parent Function and the Quadratic Parent Function.

LINEAR Parent Function

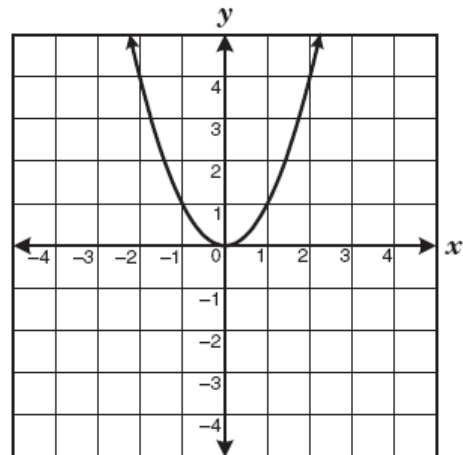


Equation: _____

$m =$ _____ $b =$ _____

Domain: _____ Range: _____

QUADRATIC Parent Function



Equation: _____

$a =$ _____ Vertex: _____

Axis of Symmetry: _____

Domain: _____ Range: _____

6. A rectangle has a length of $2x + 1$ and a width of $5x - 4$. Which expression best describes the area of the rectangle?

F $7x - 3$

G $14x - 6$

H $10x^2 - 3x - 4$

J $10x^2 + 13x - 4$

7. Simplify the expression $6 - 3(5x + 2) - 10x$.

F $-25x$

G $5x + 6$

H $8 - 25x$

J $12 - 25x$