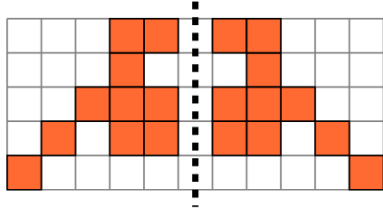




Identify reflections across the y-axis

1

Are the left and right sides symmetric?

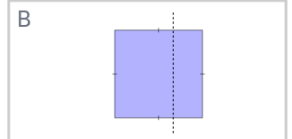
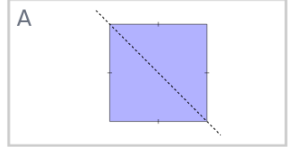
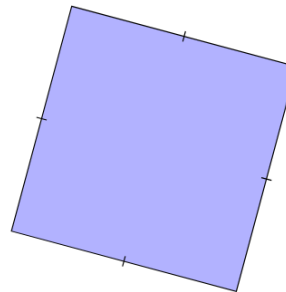


A Yes

B No

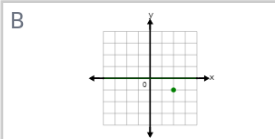
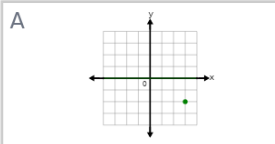
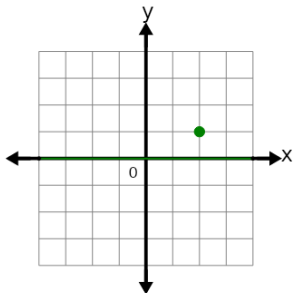
2

Where is a line of symmetry on this Square?



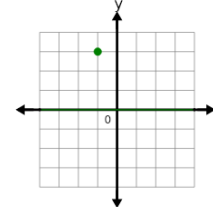
3

Reflect this point across the X axis



4

Reflect this point across the X axis



A (-1,-3)

B (1,3)

5

What does this transformation produce in $f(x)$?

$$g(x) = -4f(x)$$

A

Reflect in X – Axis
Vertical compression : 4

B

Reflect in Y – Axis
Vertical stretch : 4

C

Reflect in X – Axis
Vertical stretch : 4

6

(1,-4)

A

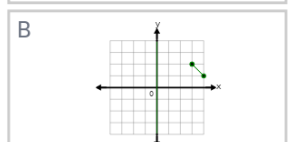
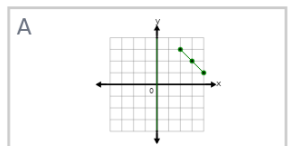
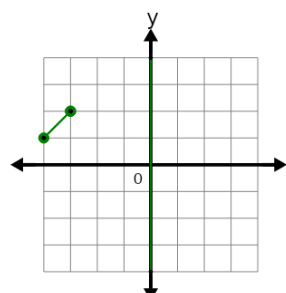
(1,-4)

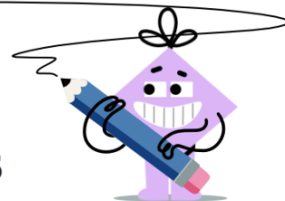
B

(-1,-4)

7

Reflect this shape across the Y axis



**Identify reflections across the y-axis****8**What does this transformation produce in $f(x)$?

$$g(x) = f(-x) - n$$

A

Reflect in Y – Axis
Shift up : n

B

Reflect in Y – Axis
Shift down : n

C

Reflect in X – Axis
Shift down : n **9**If the domain of $f(x)$ is $[a,b]$, which function $g(x)$ would have this domain?

$$\left[\frac{a}{5}, \frac{b}{5}\right]$$

A

$$g(x) = f(5x)$$

B

$$g(x) = 5f(x)$$

10If the vertex of $f(x)$ is (a,b) , which function $g(x)$ would have this vertex?

$$\left(-\frac{a}{p}, b\right)$$

A

$$g(x) = -f(p \cdot x)$$

B

$$g(x) = p \cdot f(-x)$$

C

$$g(x) = f(-p \cdot x)$$

11If the domain of $f(x)$ is $[a,b]$, what is the domain of $g(x)$?

$$g(x) = f(x - 4)$$

A

$$[a + 4, b + 4]$$

B

$$[a, b]$$

C

$$[a - 4, b - 4]$$

12If the domain of $f(x)$ is $[a,b]$, what is the domain of $g(x)$?

$$g(x) = f(0.2x - 5)$$

A

$$[a + 5, b + 5]$$

B

$$\left[\frac{a + 5}{0.2}, \frac{b + 5}{0.2}\right]$$

C

$$\left[\frac{a}{0.2}, \frac{b}{0.2}\right]$$

13If the range of $f(x)$ is $[a,b]$, what is the range of $g(x)$?

$$g(x) = w \cdot f(x) - z$$

A

$$[a - z, b - z]$$

B

$$[w \cdot a - z, w \cdot b - z]$$

C

$$[w \cdot a + z, w \cdot b + z]$$