

Evaluate composite functions

1 Find the composite function of $z(n(x))$?

A

$$z(n(x)) = -4^{-5(3\log 1x)}$$

B

$$z(n(x)) = 3\log 1(-4^{-5x})$$

2 What part of this composite function is $b(x)$?

given $b(p(x))$ $b(x)$ is the ?

A

outer function

B

inner function

3 What part of this composite function is $d(x)$?

given $d(b(x))$ $d(x)$ is the ?

A

output function

B

input function

4 What part of this composite function is the outer function?

given $n(r(x))$

outer function is?

A

$$r(x)$$

B

$$n(x)$$

5 What part of this composite function is $b(x)$?

given $b(c(x))$ $b(x)$ is the ?

A

first function

B

second function

6 Which set describes the domain of this function composition?

A

$$\{X \in \mathbb{R} | X \leq 5\}$$

B

$$\{X \in \mathbb{R} | 5 \leq X\}$$

7 Which set describes the domain of this function composition?

A

$$\{X \in \mathbb{R} | X < 4 \text{ or } 4 < X\}$$

B

$$\{X \in \mathbb{R} | 4 < X < 4 \text{ or } 4 < X < 4\}$$

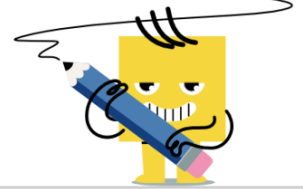
8 Which set describes the domain of this function composition?

A

$$\{X \in \mathbb{R} | X < -1\}$$

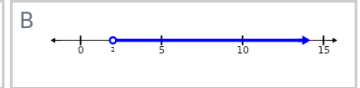
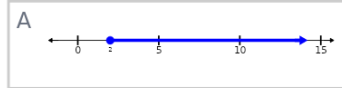
B

$$\{X \in \mathbb{R} | -1 < X\}$$

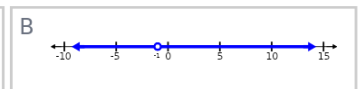
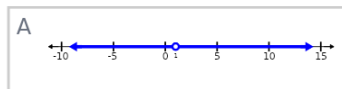


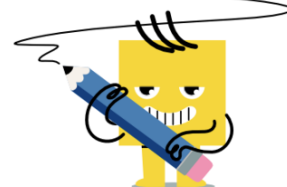
Evaluate composite functions

9 Which number line shows the domain of this function composition?



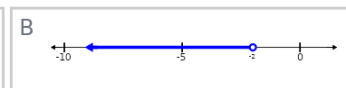
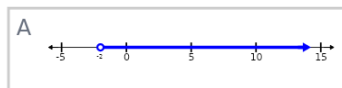
10 Which number line shows the domain of this function composition?





Evaluate composite functions

11 Which number line shows the domain of this function composition?



12 Which set describes the domain of this function composition?

A $\{x \in \mathbb{R} \mid x < -10 \text{ or } 2 < x\}$

B $\{x \in \mathbb{R} \mid 0 < x < 10 \text{ or } -2 < x < 2\}$