Name

Function Composition - Inputs to Composite Function

1

given:

$$b(x) = -1 \cdot x + 3$$

$$p(x) = \frac{3}{1x}$$

$$b(p(x)) = ?$$

Find the composite function of b(p(x))?

A

$b(p(x)) = \frac{3}{1(-1 \cdot x + 3)}$

B

$b(p(x)) = -1 \cdot (\frac{3}{1x}) + 3$

2

given:

$$n(x) = \frac{4}{-3x}$$

$$d(x) = 2 \cdot x + 2$$

$$n(d(x)) = ?$$

Find the composite function of n(d(x))?

A

$n(d(x)) = \frac{4}{-3(2 \cdot x + 2)}$

B

$n(d(x)) = 2 \cdot (\frac{4}{-3x}) + 2$

3

given:

$$z(x) = \frac{-2}{-5x}$$

$$m(x) = 1 \cdot x + 4$$

$$z(m(x)) = ?$$

Find the composite function of z(m(x))?

A

$z(m(x)) = 1 \cdot (\frac{-2}{-5x}) + 4$

B

$z(m(x)) = \frac{-2}{-5(1 \cdot x + 4)}$

4

given:

$$y(x) = \frac{-4}{-4x}$$

$$d(x) = 3 \cdot x - 2$$

$$d(y(x)) = ?$$

Find the composite function of d(y(x))?

A

$d(y(x)) = 3 \cdot (\frac{-4}{-4x}) - 2$

B

$d(y(x)) = \frac{-4}{-4(3 \cdot x - 2)}$

5

given:

$$n(x) = \frac{-1}{5x}$$

$$z(x) = \frac{-3}{4x}$$

$$z(n(x)) = ?$$

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

A

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

B

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

6

given:

$$r(x) = 5 \cdot x - 4$$

$$b(x) = 3 \cdot x - 3$$

$$r(b(x)) = ?$$

Find the composite function of r(b(x))?

A

$r(b(x)) = 3 \cdot (5 \cdot x - 4) - 3$

B

$r(b(x)) = 5 \cdot (3 \cdot x - 3) - 4$

7

given:

$$d(x) = 5 \cdot x + 1$$

$$p(x) = -1 \cdot x + 5$$

$$p(d(x)) = ?$$

Find the composite function of p(d(x))?

A

$p(d(x)) = 5 \cdot (-1 \cdot x + 5) + 1$

B

$p(d(x)) = -1 \cdot (5 \cdot x + 1) + 5$

8

given:

$$r(x) = 1 \cdot x - 5$$

$$d(x) = \frac{5}{2x}$$

$$r(d(x)) = ?$$

Find the composite function of r(d(x))?

A

$r(d(x)) = \frac{5}{2(1 \cdot x - 5)}$

B

$r(d(x)) = 1 \cdot (\frac{5}{2x}) - 5$