



Function Composition - Inputs to Composite Function

1 given:

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

$$m(x) = 1 \cdot x^2$$

$$m(r(x)) = ?$$

Find the composite function of $m(r(x))$?

A	B
$m(r(x)) = \frac{-3}{-4(1 \cdot x^2)}$	$m(r(x)) = 1 \cdot (\frac{-3}{-4x})^2$

2

given:

$$z(x) = -3 \cdot x^2$$

$$n(x) = -2\sqrt{2x}$$

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

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

A	B
$z(n(x)) = -3 \cdot (-2\sqrt{2x})^2$	$z(n(x)) = -2\sqrt{2(-3 \cdot x^2)}$

3

given:

$$p(x) = -5 \cdot x - 3$$

$$c(x) = 5 \cdot x^2$$

$$c(p(x)) = ?$$

Find the composite function of $c(p(x))$?

A	B
$c(p(x)) = -5 \cdot (5 \cdot x^2) - 3$	$c(p(x)) = 5 \cdot (-5 \cdot x - 3)^2$

4

given:

$$m(x) = 1 \cdot x^2$$

$$r(x) = -5 \cdot x^2$$

$$r(m(x)) = ?$$

Find the composite function of $r(m(x))$?

A	B
$r(m(x)) = -5 \cdot (1 \cdot x^2)^2$	$r(m(x)) = 1 \cdot (-5 \cdot x^2)^2$

5

given:

$$m(x) = 3 \cdot x + 2$$

$$c(x) = 5 \cdot x^2$$

$$c(m(x)) = ?$$

Find the composite function of $c(m(x))$?

A	B
$c(m(x)) = 3 \cdot (5 \cdot x^2) + 2$	$c(m(x)) = 5 \cdot (3 \cdot x + 2)^2$

6

given:

$$b(x) = 1 \cdot x^2$$

$$r(x) = 4 \cdot x^2$$

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

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

A	B
$b(r(x)) = 4 \cdot (1 \cdot x^2)^2$	$b(r(x)) = 1 \cdot (4 \cdot x^2)^2$

7

given:

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

$$y(x) = \frac{1}{-1x}$$

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

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

A	B
$d(y(x)) = \frac{1}{-1(-2 \cdot x^2)}$	$d(y(x)) = -2 \cdot (\frac{1}{-1x})^2$

8

given:

$$z(x) = 3 \cdot x^2$$

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

$$b(z(x)) = ?$$

Find the composite function of $b(z(x))$?

A	B
$b(z(x)) = 1 \cdot (3 \cdot x^2) - 3$	$b(z(x)) = 3 \cdot (1 \cdot x - 3)^2$