

Composition of Two Functions

A) If $f(x) = -2x + 6$, $g(x) = 4$ and $h(x) = -1$, find the following.

1) $f(h(x))$

2) $g(f(x))$

B) If $f(x) = x^2 - 6$, $g(x) = -5$ and $h(x) = -x - 7$, find the following.

1) $(h \circ f)(x)$

C) If $g(x) = 8$, $h(x) = (x - 8)$

1) $(h \circ g)(x)$

3) Is $(h \circ g)(x) \neq (g \circ h)(x)$?

D) 1) If $f(x) = x^2 - x$ and $g(x) = -3$, which of the following represents $g(f(x))$?

i) 6

ii) 3

iii) $3x^2 + 3x$

iv) -3

2) If $g(x) = x$ and $h(x) = 4x^2 - 11$, which of the following represents $(h \circ g)(x)$?

i) $4x^2 - 11$

ii) $-4x^2 - 11$

iii) $-4x^2 + 11$

iv) $4x^2 + 11$

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Composition of Two Functions

A) If $f(x) = -2x + 6$, $g(x) = 4$ and $h(x) = -1$, find the following.

1) $f(h(x))$

2) $g(f(x))$

8

4

B) If $f(x) = x^2 - 6$, $g(x) = -5$ and $h(x) = -x - 7$, find the following.

1) $(h \circ f)(x)$

 $-x^2 - 14x - 49$

-5

C) If $g(x) = 8$, $h(x) = (x - 2)^2 - 5$, find the following.

1) $(h \circ g)(x)$

49

8

3) Is $(h \circ g)(x) \neq (g \circ h)(x)$ true or false?

true

D) 1) If $f(x) = x^2 - x$ and $g(x) = -3$, which of the following represents $g(f(x))$?

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2) If $g(x) = x$ and $h(x) = 4x^2 - 11$, which of the following represents $(h \circ g)(x)$?

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