

Composition of Three Functions

Choose the correct choice that best describes $f \circ (g \circ h)$.

1) $f(x) = x - 2$; $g(x) = x^2 + 1$; $h(x) = x - 3$.

- a) $x^2 - 6x + 10$
- b) $x^2 - 6x + 8$
- c) $-x^2 - 4x + 2$
- d) $x^2 - 4x + 2$

2) $f(x) = 2x - 4$; $g(x) = x + 7$; $h(x) = 2x^2 + 3x + 2$.

- a) $2x^2 + 6x + 11$
- b) $2x^2 - 6x + 11$
- c) $4x^2 + 6x + 14$
- d) $2x^2 + 6x - 14$

3) $f(x) = 2x - 3$; $g(x) = x^2 + 1$; $h(x) = x - 3$.

- a)
- b)
- c)
- d)

5) $f(x) = 2x - 3$; $g(x) = x^2 + 1$; $h(x) = x - 3$.

- a)
- b)
- c)
- d)

7) $f(x) = 2x - 3$; $g(x) = x^2 + 1$; $h(x) = x - 3$.

- a)

b) $5x^2 - 14x - 23$

c) $-5x^2 - 14x - 23$

d) $5x^2 + 40x - 26$

b) $9x^4 + 9$

c) $9x^4 + 1$

d) $4x^2 + x + 9$

9) $f(x) = x^2 + 4x + 5$; $g(x) = x - 8$; $h(x) = x + 9$.

- a) $x^2 - 6x + 10$
- b) $x^2 + 6x - 6$
- c) $x^2 + 6x + 10$
- d) $x^2 + 6x + 6$

10) $f(x) = 2x + 9$; $g(x) = x^2$; $h(x) = x + 2$.

- a) $2x^2 + 8x + 8$
- b) $2x^2 - 8x - 9$
- c) $2x^2 + 8x + 17$
- d) $2x^2 - 8x - 17$

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