

Composition of Two Functions

MS2

Choose the correct choice.

1) $f(x) = x^2 + 2x + 4$; $g(x) = -1 - x$. Find $g \circ f$.

- a) $-(x^2 + 2x + 5)$
- b) $x^2 - 2x + 2$
- c) $x^2 + 2x - 5$
- d) $-x^2 - 3x + 1$

2) $f(x) = 3x^2 + 5$; $g(x) = x + 2$. Find $f \circ g$.

- a) $3x^2 + 7$
- b) $x^2 + 4x + 9$
- c) $3x^2 + 12x + 17$
- d) $3x^2 + 12x + 9$

3) $f(x) = 5x$; $g(x) = (1 - x)^2$. Find $g \circ f$.

- a) $5x^2 - 10x + 1$
- b) $25x^2 - 10x + 1$
- c) $5 - 10x + 5x^2$
- d) $25x^2 + 10x - 1$

4) $f(x) = x + 5$; $g(x) = x^2 - 4x - 3$. Find $f \circ g$.

5) $f(x) = -x - 4$; $g(x) = 1 - x^2$. Find $g \circ f$.

- a) $x^2 + 3x + 29$
- b) $x^2 + 11x + 29$
- c) $-x^2 + 3x + 13$
- d) $x^2 + 3x - 5$

7) $f(x) = -x^2 - 2x - 8$; $g(x) = 3 - x$. Find $f \circ g$.

- a) $3x^2 + 6x + 25$
- b) $-9x^2 + 12x + 14$
- c) $-3x^2 - 6x - 23$
- d) $-x^2 + 3x + 7$

9) $f(x) = x^2 - 9$; $g(x) = x - 8$. Find $f \circ g$.

- a) $x^2 - 17$
- b) $x^2 - 3x + 17$
- c) $x^2 - 16x + 55$
- d) $x^2 - 16x + 73$

10) $f(x) = 6x - 5$; $g(x) = x^2 - 2x + 12$. Find $g \circ f$.

- a) $6x^2 - 12x + 67$
- b) $x^2 - 12x + 22$
- c) $36x^2 - 72x + 12$
- d) $36x^2 - 72x + 47$

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Answer key**Composition of Two Functions**

MS2

Choose the correct choice.

- 1) $f(x) = x^2 + 2x + 4$; $g(x) = -1 - x$. Find $g \circ f$.
- a) **$-(x^2 + 2x + 5)$**
 b) $x^2 - 2x + 2$
 c) $x^2 + 2x - 5$
 d) $-x^2 - 3x + 1$
- 2) $f(x) = 3x^2 + 5$; $g(x) = x + 2$. Find $f \circ g$.
- a) $3x^2 + 7$
 b) $x^2 + 4x + 9$
 c) **$3x^2 + 12x + 17$**
 d) $3x^2 + 12x + 9$
- 3) $f(x) = 5x$; $g(x) = (1 - x)^2$. Find $g \circ f$.
- a) $5x^2 - 10x + 1$
 b) **$25x^2 - 10x + 1$**
 c) $5 - 10x + 5x^2$
 d) $25x^2 + 10x - 1$
- 4) $f(x) = x + 5$; $g(x) = x^2 - 4x - 3$. Find $f \circ g$.
- a) $x^2 + 3x + 10$
 b) $x^2 + 3x + 13$
 c) $x^2 + 3x + 16$
 d) **$x^2 + 2x + 9$**
- 5) $f(x) = -x - 4$; $g(x) = 1 - x^2$. Find $f \circ g$.
- a) $x^2 + 3x + 29$
 b) $x^2 + 11x + 29$
 c) $-x^2 + 3x + 13$
 d) **$x^2 + 3x - 5$**
- 6) $f(x) = x^2 - 2x - 8$; $g(x) = 3 - x$. Find $f \circ g$.
- a) **$3x^2 + 6x + 25$**
 b) $-9x^2 + 12x + 14$
 c) $-3x^2 - 6x - 23$
 d) $-x^2 + 3x + 7$
- 7) $f(x) = x^2 - 9$; $g(x) = x - 8$. Find $f \circ g$.
- a) $x^2 - 17$
 b) $x^2 - 3x + 17$
 c) **$x^2 - 16x + 55$**
 d) $x^2 - 16x + 73$
- 8) $f(x) = 6x - 5$; $g(x) = x^2 - 2x + 12$. Find $g \circ f$.
- a) **$6x^2 - 12x + 67$**
 b) $x^2 - 12x + 22$
 c) $36x^2 - 72x + 12$
 d) $36x^2 - 72x + 47$

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