K8Worksheets

Composition of Two Functions

WS #1

Choose the correct option.

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

a) x^3

b) x^3+3x^2+3x

c) x^3+x^2+x+2

d) x^3+x+1

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

a) $-5x^2+5$

b) $5x^2-5$

c) $5x^2-10x+1$

d) $-x^2-1$

3) $f(x) = x^2+1$; $g(x) = 9x-1$. Find $g \circ f$.

a) $9x^2$

b) $9x^2-2$

c) $9x^2+8$

d) $81x^2-18x+2$

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

a) x^3+x^2+x+6

b) x^3+6

c) x^3+5

d) x^3-6

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

a) x^2+2x+2

b) x^2+4x+2

c) x^2+2x+3

d) $x^2+8x+16$

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

a) $x^2+4x+16$

b) x^2-2x+4

c) x^2-4x+4

d) x^2+4x+4

7) $f(x) = 5x^2-13$; $g(x) = 3-2x$. Find $f \circ g$.

a) $20x^2-60x+32$

b) $10x^2+9$

c) $-4x^2-12x+6$

d) $-10x^2+9$

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

a) x^2-2x+4

b) x^2-4x+4

c) x^2-2x

d) $-x^2-2x$

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

a) x^2-4

b) x^2+1

c) $x^2+10x+24$

d) $x^2-10x+25$

10) $f(x) = x^2+2x+8$; $g(x) = 5x+1$. Find $f \circ g$.

a) $5x^2+10x+41$

b) $25x^2+12x+9$

c) $25x^2+20x+11$

d) $x^2+10x+10$