Solutions – Composite Functions (A)

Find $g(f(x))$ if $f(x) = -2x + 5$, $g(x) = 3x - 4$. Simplify your answer.

$-6x + 11$

Find $g(f(3))$ if $f(x) = -2x - 1$, $g(x) = 3x - 2$.

-23

Find $f(g(3))$ if $f(x) = -x + 3$, $g(x) = x - 5$.

5

Solutions – Composite Functions (B)

Find $f(g(x))$ if $f(x) = 3x + 1$, $g(x) = x - 3$. Simplify your answer.

$3x - 8$

Find $g(f(3))$ if $f(x) = 2x + 3$, $g(x) = -x + 1$.

-8

Find $g(f(x))$ if $f(x) = -x - 1$, $g(x) = 3x + 4$. Simplify your answer.

$-3x + 1$

Solutions – Composite Functions (C)

Find $f(g(1))$ if $f(x) = x - 2$, $g(x) = x + 1$.

0

Find $g(f(2))$ if $f(x) = 3x + 2$, $g(x) = -2x + 3$.

-13

Find $g(f(x))$ if $f(x) = -2x$, $g(x) = -x + 4$. Simplify your answer.

$2x + 4$

Solutions – Composite Functions (D)

Find $g(f(3))$ if $f(x) = -2x - 4$, $g(x) = x + 5$.

-5

Find $f(g(4))$ if $f(x) = 2x + 5$, $g(x) = 3x + 1$.

31

Find $g(f(x))$ if $f(x) = -2x - 3$, $g(x) = x$. Simplify your answer.

$-2x - 3$

Solutions – Composite Functions (E)

Find $g(f(3))$ if $f(x) = 2x - 5$, $g(x) = 2x - 1$.

1

Find $f(g(x))$ if $f(x) = x + 1$, $g(x) = 3x - 1$. Simplify your answer.

$3x$

Find $f(g(1))$ if $f(x) = x + 2$, $g(x) = -x - 2$.

-1

Solutions – Composite Functions (F)

Find $f(g(x))$ if $f(x) = -x + 4$, $g(x) = -x + 3$. Simplify your answer.

$x + 1$

Find $g(f(2))$ if $f(x) = -2x + 4$, $g(x) = -x - 3$.

-3

Find $f(g(2))$ if $f(x) = -x + 2$, $g(x) = x - 1$.

1

Solutions – Composite Functions (G)

Find $g(f(3))$ if $f(x) = x$, $g(x) = -2x + 2$.

-4

Find $f(g(x))$ if $f(x) = x$, $g(x) = 3x - 5$. Simplify your answer.

$3x - 5$

Find $f(g(1))$ if $f(x) = -2x - 4$, $g(x) = -x - 5$.

8

Solutions – Composite Functions (H)

Find $g(f(x))$ if $f(x) = -x + 4$, $g(x) = 3x - 4$. Simplify your answer.

$-3x + 8$

Find $g(f(4))$ if $f(x) = 2x - 1$, $g(x) = x + 4$.

11

Find $f(g(x))$ if $f(x) = 2x + 4$, $g(x) = -2x + 3$. Simplify your answer.

$-4x + 10$

Solutions – Composite Functions (I)

Find $g(f(x))$ if $f(x) = 3x - 4$, $g(x) = -2x - 5$. Simplify your answer.

$-6x + 3$

Find $f(g(1))$ if $f(x) = -2x + 3$, $g(x) = x + 3$.

-5

Find $f(g(x))$ if $f(x) = 2x - 3$, $g(x) = x - 4$. Simplify your answer.

$2x - 11$

Solutions – Composite Functions (J)

Find $f(g(x))$ if $f(x) = x + 2$, $g(x) = 2x + 4$. Simplify your answer.

$2x + 6$

Find $g(f(3))$ if $f(x) = 2x + 2$, $g(x) = -2x + 1$.

-15

Find $f(g(4))$ if $f(x) = 3x$, $g(x) = 2x - 2$.

18