

Composition of Functions



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Perform the indicated operation.

1) $f(x) = 8x + 8$
 $g(x) = 4x + 3$
Find $f(f(x))$

2) $f(x) = 7x + 2$
 $g(x) = 2x + 3$
Find $g(g(4))$

3) $f(x) = 9x + 3$
 $g(x) = 5x + 1$
Find $g(g(3))$

4) $f(x) = 11x + 1$
 $g(x) = 6x + 1$
Find $g(g(1))$

5) $f(x) = 5x + 4$
 $g(x) = 7x + 2$
Find $f(g(x))$

6) $f(x) = 11x + 2$
 $g(x) = 2x + 1$
Find $f(f(x))$

7) $f(x) = 8x + 3$
 $g(x) = 2x + 2$
Find $f(g(x))$

8) $f(x) = 7x + 6$
 $g(x) = -2x + 3$
Find $f(g(x))$

9) $f(x) = 10x + 7$
 $g(x) = 6x + 4$
Find $g(g(3))$

10) $f(x) = 8x + 8$
 $g(x) = 3x + 2$
Find $f(g(-3))$

11) $f(x) = 11x + 7$
 $g(x) = 6x + 4$
Find $f(g(-4))$

12) $f(x) = 6x + 3$
 $g(x) = 5x + 3$
Find $f(g(-1))$

Answers of Composition of Functions



Perform the indicated operation.

1) $f(x) = 8x + 8$

$$g(x) = 4x + 3$$

Find $f(f(x))$

$$f(g(x)) = 64x + 72$$

2) $f(x) = 7x + 2$

$$g(x) = 2x + 3$$

Find $g(g(4))$

$$g(g(4)) = 25$$

3) $f(x) = 9x + 3$

$$g(x) = 5x + 1$$

Find $g(g(3))$

$$g(g(3)) = 81$$

4) $f(x) = 11x + 1$

$$g(x) = 6x + 1$$

Find $g(g(1))$

$$g(g(1)) = 43$$

5) $f(x) = 5x + 4$

$$g(x) = 7x + 2$$

Find $f(g(x))$

$$f(g(x)) = 35x + 14$$

6) $f(x) = 11x + 2$

$$g(x) = 2x + 1$$

Find $f(f(x))$

$$f(g(x)) = 121x + 24$$

7) $f(x) = 8x + 3$

$$g(x) = 2x + 2$$

Find $f(g(x))$

$$f(g(x)) = 16x + 19$$

8) $f(x) = 7x + 6$

$$g(x) = -2x + 3$$

Find $f(g(x))$

$$f(g(x)) = -14x + 27$$

9) $f(x) = 10x + 7$

$$g(x) = 6x + 4$$

Find $g(g(3))$

$$g(g(3)) = 136$$

10) $f(x) = 8x + 8$

$$g(x) = 3x + 2$$

Find $f(g(-3))$

$$f(g(-3)) = -48$$

11) $f(x) = 11x + 7$

$$g(x) = 6x + 4$$

Find $f(g(-4))$

$$f(g(-4)) = -213$$

12) $f(x) = 6x + 3$

$$g(x) = 5x + 3$$

Find $f(g(-1))$

$$f(g(-1)) = -9$$