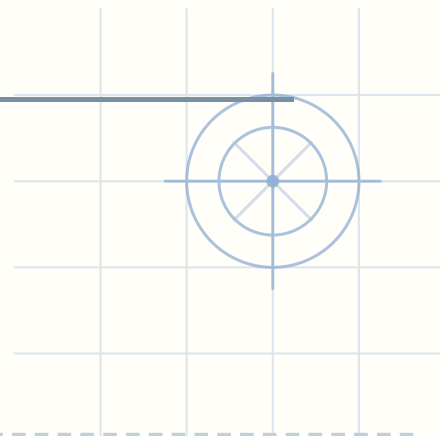


Function notation — Composing $f(g(x))$

Name: _____

Date: _____

(Work the inside function first, then the outside one.



1 $f(x) = x$ $g(x) = -3x + 3$ $f(g(6)) =$ _____

2 $f(x) = 4x - 1$ $g(x) = 4x - 1$ $f(g(2)) =$ _____

3 $f(x) = -3x + 1$ $g(x) = -2x + 7$ $f(g(-2)) =$ _____

4 $f(x) = 5x + 3$ $g(x) = -2x + 2$ $f(g(6)) =$ _____

5 $f(x) = -5x - 3$ $g(x) = -4x + 9$ $f(g(4)) =$ _____

6 $f(x) = 4x - 8$ $g(x) = -3x + 6$ $f(g(-1)) =$ _____



Function notation · Composing $f(g(x))$ — Answer key

1. $f(x) = x$ $g(x) = -3x + 3$
 $f(g(6)) = -15$

2. $f(x) = 4x - 1$ $g(x) = 4x - 1$
 $f(g(2)) = 27$

3. $f(x) = -3x + 1$ $g(x) = -2x + 7$
 $f(g(-2)) = -32$

4. $f(x) = 5x + 3$ $g(x) = -2x + 2$
 $f(g(6)) = -47$

5. $f(x) = -5x - 3$ $g(x) = -4x + 9$
 $f(g(4)) = 32$

6. $f(x) = 4x - 8$ $g(x) = -3x + 6$
 $f(g(-1)) = 28$

