

COMPOSITE FUNCTION Worksheet

Evaluate each composite value

1. If $f(x) = 3x - 5$ and $g(x) = x^2$, find $(f \circ g)(3)$
2. If $f(x) = -9x - 9$ and $g(x) = \sqrt{x - 9}$, find $(f \circ g)(10)$
3. If $f(x) = -4x + 2$ and $g(x) = \sqrt{x - 8}$, find $(f \circ g)(12)$
4. If $f(x) = -3x + 4$ and $g(x) = x^2$, find $(g \circ f)(-2)$
5. If $f(x) = -2x + 1$ and $g(x) = \sqrt{x^2 - 5}$, find $(g \circ f)(2)$

For each find $(f+g)(x)$; $(f-g)(x)$; $(fg)(x)$; $(f/g)(x)$

6. Given $f(x) = -9x + 3$ and $g(x) = x^4$,

7. Given $f(x) = 2x - 5$ and $g(x) = x + 2$,

8. Given $f(x) = x^2 + 7$ and $g(x) = x - 3$,

9.
Given $f(x) = x - 1$ and $g(x) = x^2 + 2x - 8$,