Function Notation (1)

Evaluate

1) f(4): $f(x) = 2x - 6$

2) g(3): $g(x) = x^2 - 6$

3) h(-2): $h(x) = 5 - 2x$

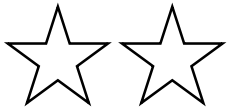
4) f(-1): $f(x) = 2x^2 - x$

5) h(10): $h(x) = x^2 - 5x$

6) g(-2): $g(x) = x^2 - x^3$

7) h(3): $h(x) = \sqrt{x + 13}$

8) f(-3): $f(x) = \sqrt{1 - x}$



Evaluate

1) fg(2)
$f(x) = x + 2 \quad g(x) = 3x$

2) gf(3)
$f(x) = x - 4 \quad g(x) = 3x$

3) gh(-1)
$g(x) = x^2 \quad h(x) = 3 - x$

4) hg(2)
$g(x) = x^2 \quad h(x) = 5 - x$

5) fg(4)
$f(x) = 2 + x \quad g(x) = 3x^2$

6) gf(2)
$f(x) = 3 - 2x \quad g(x) = 2x^2$

Find

1) fg(x)
$f(x) = x - 1 \quad g(x) = 2x$

2) gf(x)
$f(x) = x^2 \quad g(x) = 3 + x$

3) gh(x)
$g(x) = x^2 + 1 \quad h(x) = 2x$

4) hg(x)
$g(x) = 2x^2 \quad h(x) = 5 - 3x$

5) fg(x)
$f(x) = x^2 \quad g(x) = x + 4$

6) gf(x)
$f(x) = 9x^2 \quad g(x) = \sqrt{x}$