

## Math Worksheets

### Multiplying and Dividing Functions

 Perform the indicated operation.

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

$f(x) = 4x + 3$

Find  $(g \cdot f)(2)$

2)  $f(x) = 5x$

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

Find  $(f \cdot h)(-2)$

3)  $g(a) = 5a - 2$

$h(a) = 2a - 3$

Find  $(g \cdot h)(-3)$

4)  $f(x) = 2x - 7$

$h(x) = x - 5$

Find  $(\frac{f}{h})(4)$

5)  $f(x) = 8a^2$

$g(x) = 3 + 2a$

Find  $(\frac{f}{g})(2)$

6)  $g(a) = \sqrt{4a} + 2$

$f(a) = (-a)^4 + 1$

Find  $(\frac{g}{f})(1)$

7)  $g(t) = t^3 + 1$

$h(t) = 5t - 2$

Find  $(g \cdot h)(-2)$

8)  $g(n) = n^2 + 2n - 4$

$h(n) = -5n + 3$

Find  $(g \cdot h)(1)$

9)  $g(a) = (a - 3)^2$

$f(a) = a^2 + 4$

Find  $(\frac{g}{f})(3)$

10)  $g(x) = -3x^2 + \frac{4}{5}x + 9$

$f(x) = x^2 - 24$

Find  $(\frac{g}{f})(5)$

11)  $f(x) = 2x^3 - 5x^2 + 1$

$g(x) = 3x - 1$

Find  $(f \cdot g)(x)$

12)  $f(x) = 5x - 2$

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

Find  $(f \cdot g)(x^2)$

## Answers of Worksheets

### Multiplying and Dividing Functions

1)  $-55$

2)  $-70$

3)  $153$

4)  $-1$

11)  $6x^4 - 17x^3 + 5x^2 + 3x - 1$

5)  $4\frac{4}{7}$

6)  $2$

7)  $84$

8)  $2$

9)  $0$

10)  $-62$

12)  $5x^8 - 2x^6 - 10x^4 + 4x^2$