

Multiplying and Dividing Functions

 Perform the indicated operation.

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

$f(x) = 2x + 1$

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

2) $f(x) = 3x$

$h(x) = -2x + 5$

Find $(f \cdot h)(-1)$

3) $g(a) = 2a - 1$

$h(a) = 3a - 3$

Find $(g \cdot h)(-4)$

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

$h(x) = 5x - 2$

Find $\left(\frac{f}{h}\right)(2)$

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

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

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

6) $g(a) = 3a + 2$

$f(a) = 2a - 4$

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

7) $g(t) = t^2 + 3$

$h(t) = 4t - 3$

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

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

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

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

9) $g(a) = 2a^3 - 5a + 2$

$f(a) = a^3 - 4$

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

10) $g(x) = -2x^2 + 14 - 2x$

$f(x) = x^2 + 5$

Find $(g \cdot f)(4)$

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

$g(x) = 2x - 1$

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

12) $f(x) = 3x - 1$

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

Find $\left(\frac{f}{g}\right)(x)$

Answers

Multiplying and Dividing Functions

1) -20

2) -21

3) 135

4) $\frac{6}{8} = \frac{3}{4}$

5) 8

6) $\frac{11}{2}$

7) -28

8) -7

9) 2

10) -546

11) $4x^4 - 12x^3 + 5x^2$

12) $\frac{3x-1}{x^2-x}$