Name:

Date:

Multiplying and Dividing Functions

Perform the indicated operation.

1) $f(x) = 4x - 7$
$g(x) = 3x^2 + 1$
Find: $(f.g)(5)$

2) $f(x) = x^2 + 3x$
$h(x) = 4x$
Find: $(\frac{f}{h})(2)$

3) $g(t) = 2t + 4$
$f(t) = 10t + 5$
Find: $(g.f)(3)$

4) $h(x) = x^3 + 5x$
$f(x) = 4x - 7$
Find: $\left(\frac{h}{f}\right)(1)$

5) $f(x) = 2x^2 + 2x + 1$
$y(x) = 8x + 2$
Find: $\left(\frac{f}{y}\right)(-2)$

6) $y(x) = x^3 - 5x$
$h(x) = x - 2$
Find: $(y.h)(3)$

7) $f(x) = 2x + 5$
$g(x) = x^2 - 1$
Find: $(f.g)(-1)$

8) $f(x) = x^2 - 3x - 4$
$g(x) = x + 1$
Find: $\left(\frac{f}{g}\right)(1)$

Name:

Date:

Multiplying and Dividing Functions

Answers

Perform the indicated operation.

1) $f(x) = 4x - 7$
$g(x) = 3x^2 + 1$
Find: $(f.g)(5)$
988

2) $f(x) = x^2 + 3x$
$h(x) = 4x$
Find: $\left(\frac{f}{h}\right)(2)$
$\frac{5}{4}$

3) $g(t) = 2t + 4$
$f(t) = 10t + 5$
Find: $(g.f)(3)$
350

4) $h(x) = x^3 + 5x$
$f(x) = 4x - 7$
Find: $\left(\frac{h}{f}\right)(1)$
-2

5) $f(x) = 2x^2 + 2x + 1$
$y(x) = 8x + 2$
Find: $\left(\frac{f}{y}\right)(-2)$
$-\frac{5}{14}$

6) $y(x) = x^3 - 5x$
$h(x) = x - 2$
Find: $(y.h)(3)$
12

7) $f(x) = 2x + 5$
$g(x) = x^2 - 1$
Find: $(f.g)(-1)$
0

8) $f(x) = x^2 - 3x - 4$
$g(x) = x + 1$
Find: $\left(\frac{f}{g}\right)(1)$
-3