Precalculus
Section 1.4 Part I Practice 3

Name _____ Date _____

For the given f(x) and g(x), find the **operation** or **composition** of functions listed, the **domain**, and the corresponding **values**.

1) ***Given:*** $f(x) = 2x + 3$ **and** $g(x) = 4x^2 - 7$

$(f+g)(x) =$

Answer: _____

Domain: _____

$(f+g)(2)$

2) ***Given:*** $f(x) = 2x + 3$ **and** $g(x) = 4x^2 - 7$

$(f-g)(x) =$

Answer: _____

Domain: _____

$(f-g)(0)$

3) ***Given:*** $f(x) = x^2$ **and** $g(x) = 1 - x$

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

Answer: _____

Domain: _____

$(f \cdot g)(-1)$

4) ***Given:*** $f(x) = x^2$ **and** $g(x) = 1 - x$

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

Answer: _____

Domain: _____

$\left(\frac{f}{g}\right)(1)$

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

LIVEWORKSHEETS

For the given f(x) and g(x), find the **operation** or **composition** of functions listed, the **domain**, and the corresponding **values**.

5) ***Given:*** $f(x) = x^2 + 2$ **and** $g(x) = x - 5$

$(f + g)(x) =$

Answer: _____

Domain: _____

$(f + g)(0)$

6) ***Given:*** $f(x) = x^2 + 2$ **and** $g(x) = x - 5$

$(f - g)(x) =$

Answer: _____

Domain: _____

$(f - g)(-3)$

7) ***Given:*** $f(x) = -4x + 1$ **and** $g(x) = 3x + 3$

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

Answer: _____

Domain: _____

$(f \cdot g)(1)$

8) ***Given:*** $f(x) = -4x + 1$ **and** $g(x) = 3x + 3$

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

Answer: _____

Domain: _____

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

$\left(\frac{f}{g}\right)(-1)$

LIVEWORKSHEETS