Algebra 2b Name_____

7.6 Day 2 Worksheet

Date_____ Period____

Perform the indicated operation. Find any restrictions

1) $f(n) = 4n - 4$
$g(n) = -4n - 5$
Find $\left(\frac{f}{g}\right)(n)$

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

3) $f(x) = -4x + 1$
$g(x) = 2x - 3$
Find $(f + g)(x)$

4) $g(a) = a^3 + 2$
$h(a) = 3a - 3$
Find $(g \cdot h)(a)$

5) $g(n) = n + 5$
$f(n) = n^3 + 3n$
Find $\left(\frac{g}{f}\right)(n)$

6) $g(x) = x - 1$
$f(x) = 4x - 4$
Find $(g - f)(x)$

7) $f(x) = x - 1$
$g(x) = 2x - 3$
Find $\left(\frac{f}{g}\right)(x)$

8) $g(x) = x^2 + 3 - x$
$f(x) = -2x - 5$
Find $(g - f)(x)$

9) $f(x) = 2x - 3$
$g(x) = x^3 + x$
Find $(f \cdot g)(x)$

10) $f(x) = 2x + 2$
$g(x) = x^3 - 2x^2$
Find $\left(\frac{f}{g}\right)(x)$

11) $g(x) = -3x^3 - 5$
$h(x) = 3x + 3$
Find $(g + h)(x)$

12) $f(a) = a^2 - 4$
$g(a) = 3a + 5$
Find $\left(\frac{f}{g}\right)(a)$

13) $g(x) = -2x + 2$
$f(x) = x^2 - 3 + x$
Find $(g + f)(x)$

14) $g(x) = -x - 3$
$f(x) = x - 5$
Find $(g \cdot f)(x)$

15) $g(n) = -3n - 5$
$h(n) = 3n + 4$
Find $(g - h)(n)$

16) $g(x) = x - 4$
$h(x) = 3x + 5$
Find $\left(\frac{g}{h}\right)(x)$