

Q1 HW1 *ALL WORK ON LOOSE LEAF*

Date _____ Period _____

Evaluate each function.

1) $f(x) = -2x - 3$; Find $f(-1)$

2) $f(a) = 4a - 3$; Find $f(9)$

3) $k(t) = -2t + 1$; Find $k\left(-\frac{2}{3}\right)$

4) $f(n) = \frac{2}{3}n - \frac{6}{5}$; Find $f\left(\frac{5}{7}\right)$

5) $g(a) = a - 4$; Find $g(3a)$

6) $g(t) = 2t - 5$; Find $g(-t)$

Perform the indicated operation.

7) $f(t) = t^2 + 1$
 $g(t) = -4t - 2$
Find $(f + g)(t)$

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

9) $f(x) = -3x - 5$
 $g(x) = x^2 + 4$
Find $(f \cdot g)(x)$

10) $g(n) = 3n - 4$
 $h(n) = n^2 - 5n$
Find $(g \cdot h)(n)$

11) $g(x) = -x$
 $h(x) = x^2 + 4$
Find $(g \cdot h)(x)$

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

13) $h(n) = -n + 5$
 $g(n) = 3n + 2$
Find $h(g(n))$

14) $g(t) = t + 1$
 $h(t) = 3t^2 + t$
Find $g(h(t))$

15) $f(x) = -3x - 2$
 $g(x) = 4x + 5$
Find $f(g(x))$

16) $g(n) = 2n + 5$
 $f(n) = n^3 - 5n^2$
Find $g(f(n))$