Algebra 2 Name_____

Day 1 Operations with Functions Practice

Date_____

Perform the indicated operation.

1) $h(t) = t^2 - 4$
$g(t) = 2t + 5$
Find $h(t) + g(t)$

2) $g(x) = 4x - 4$
$h(x) = 2x - 5$
Find $g(x) + h(x)$

3) $h(x) = 3x + 3$
$g(x) = x^2 - 4x$
Find $(h - g)(x)$

4) $g(n) = 3n - 4$
$h(n) = 3n - 1$
Find $g(n) - h(n)$

5) $g(n) = -n + 2$
$f(n) = 2n + 1$
Find $(g \cdot f)(n)$

6) $h(n) = 4n + 1$
$g(n) = 2n - 1$
Find $h(n) \cdot g(n)$

7) $f(n) = -3n^2 - 4$
$g(n) = 3n + 3$
Find $f(n) \div g(n)$

8) $h(t) = -3t^2 - 3$
$g(t) = t + 5$
Find $h(t) \div g(t)$

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

10) $f(n) = n^2 - 2n$
$g(n) = 3n - 2$
Find $(f \circ g)(n)$