

Algebra 2 CC
Polynomial Expressions HW

Name _____

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

a. Find $f(x) + g(x)$

b. Find $f(x) - g(x)$

c. Find $f(x) \cdot g(x)$

d. Find $f(x) \div g(x)$

e. Find $f(x) \cdot g(x) - [f(x) + g(x)]$

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

a. Find $f(x) + g(x)$

b. Find $f(x) - g(x)$

c. Find $f(x) \cdot g(x)$

d. Find $f(x) \div g(x)$

3.) When the expression $(x+2)^2 + 4(x+2) + 3$ is rewritten as the product of two binomials, the result is

(a) $(x+3)(x+1)$

(b) $(x+5)(x+3)$

(c) $(x+2)(x+2)$

(d) $(x+6)(x+1)$