

Name: _____

Multiplying a Polynomial by a Monomial

Multiply the following monomials. Write answers in simplest form.

1) $-3x^2(14x^2 - 12x - 2)$

2) $x(x^2 + 9x - 5)$

3) $12x^2y^3(2x + 3y^2 + xy)$

4) $12x^2(x - 8)$

5) $2x(4x^3 + 3x - 8)$

6) $6x^2y^3(2x + 3y^2 + xy)$

7) $2x(x^2 - 6x + 5)$

8) $-4y^2(5y^4 - 3y^2 + 2)$

9) $-7h(3h^2 - 8h - 1)$

10) $-4(z^2 - 5z) - 5(4z^2 - 1) + 6(2z - 3)$