

Homework # 6: Multiply a monomial by a Polynomial**Directions:** Simplify the following polynomials. **Answers must be in standard form.**

1. $a(4a + 3)$	2. $-c(11c + 4)$	3. $x(2x - 5)$
4. $2y^2(y^5 - 4y)$	5. $-3mn(m^2n^3 + 2mn)$	6. $9p^3q^4(3p^3 - 5q)$
7. $3r^4(5r^2 - r + 4)$	8. $7c(c^3 - 2c^2 + 5)$	9. $-3n^2(-2n^3 + 7n + 4n)$
10. $w^3(3w^2 + 2w) + 5w^4$	11. $z(5z - 3) - 2z$	12. $y^2(-4y + 5) - 6y^2$

13) $4x(5x - 3) - 2(2x^2 - 7b - 4) =$

14) $4n(3n^2 + n - 4) - n(3 - n) =$