

## SM2-A HW #2-8 (Polynomials)

Date \_\_\_\_\_ Period \_\_\_\_\_

**Simplify each difference.**

1)  $(5r^2 + 2) - (7r^2 + 5)$

2)  $(5x^4 + 7x^2) - (7x^2 + 3x^4)$

3)  $(5a^2 - 3a - 5a^4) - (6a + 7a^2 + 4a^4)$

4)  $(2r^2 + 5r^3 - 7) - (7r^2 - 5 + 7r^3)$

**Find each product.**

5)  $7n^2(2n + 2)$

6)  $3(4x - 1)$

7)  $(7m - 3)(m - 3)$

8)  $(8v + 3)(8v + 5)$

9)  $(6k - 3)(k^2 - k + 4)$

10)  $(8p - 5)(7p^2 + p - 5)$

$$11) (5x - 8)^2$$

$$12) (6v + 3)^2$$

**Simplify. Your answer should contain only positive exponents.**

$$13) \frac{yx^{-1}}{xy}$$

$$14) \frac{2y^{-1}}{2x^2y^2}$$