

SM2-A HW #2-9 (Practice Polynomials)

Date _____ Period _____

Simplify each difference.

1) $(5x^3 + 4x) - (6x^3 - 7x)$

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

3) $(6m^2 - 8m^4 + 3m^3) - (5m^2 - 2m^4 - 3m^3)$

4) $(5m^2 - 2m - 5m^3) - (8m^3 - 2m^2 - 5)$

Find each product.

5) $2x^3(8x - 7)$

6) $6(3k - 5)$

7) $(5n + 2)(3n + 7)$

8) $(2k + 1)(5k - 7)$

9) $(7n + 5)(5n^2 + 4n - 7)$

10) $(6x + 7)(8x^2 - 2x - 6)$

$$11) (2 - 8n)^2$$

$$12) (6m + 4)^2$$

Simplify. Your answer should contain only positive exponents.

$$13) \frac{v^2}{2u^{-2}v^{-2}}$$

$$14) \frac{vu^2}{u^{-2}v^{-1}}$$