

Name: _____
Period: _____

Review Unit 10 & 11
Basic Skills Algebra

Find the sum of the polynomials.

1. $(3x^3 - 2x + 3x^2) + (-7x^2 - 2x^3 + 4x - 6)$

2. $(-8x^5 + 6x^3 - 5x^2 - 1) + (-2x^5 - 3x^2 + 4x + 9)$

Find the difference of the polynomials.

3. $(6x^3 - x^2 + x - 8) - (-x^2 - 4x + 9)$

4. $(-3r^2 - 8r + 12) - (4r^3 - 5r^2 - 8)$

Use the distributive property to multiply the polynomials.

5. $3x(-4x + 2)$

6. $-2x^2(4x^2 - 2x + 3)$

7. $-x^3(2x^2 - x + 3)$

Use F.O.I.L. to multiply the binomials.

8. $(x + 8)(x + 4)$

9. $(x - 7)(2x + 1)$

10. $(x^2 - 1)(x + 3)$

11. $(2x^2 - 3)(3x + 2)$

12. $(3x^3 + x)(4x^2 - 5)$

13. $(-x^2 - 5)(x^3 + 3x)$

Divide the polynomials.

14. $\frac{4p^3 - 2p^2 - 8p}{2p}$

15. $\frac{-10p^5 - 15p^4 + 5p^3}{5p^2}$

16. $\frac{28x^4 - 42x^3 - 56x^2}{14x^2}$