#### Homework Review - 9.1

$$\frac{40}{40} - 18.53 t^{2} + 975.8t + 48,140 \qquad \text{if in pollic}$$

$$80.8t + 8049 \qquad \text{if in pollic}$$

$$-20t^{2} + 1000t + 55,000$$

$$-20t^{2} + 1000t + 5000 \qquad 2012 \\ 1965$$

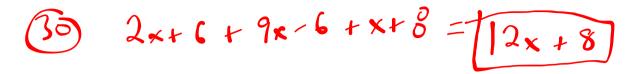
$$-20(30^{2}) + 1000(30) + 5000 \qquad t = 27$$

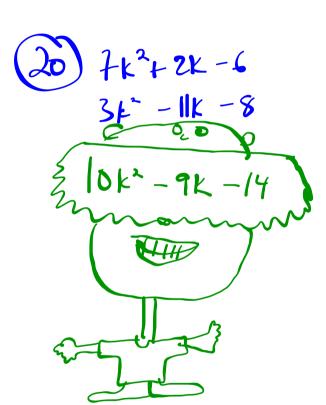
$$-18,000 + 30000 + 5000 = 17,000$$

$$\frac{7}{17,000} = 70\%$$

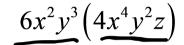
$$40(30) + 8000 = 10,000$$

Section 9.2 042712.notebook





# Multplying polynomials







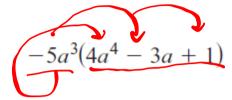
Multiplying monomials:

Multiply non-variable #'s together

Multiply like variables (use exponent rules)

Write your answer in the proper order

# Multplying polynomials, continued



$$-20a^{7}+15a^{4}-5a^{3}$$

# Multiplying a monomial by a polynomial:

Multiply each term in the polynomial by the monomial

Simplify the resulting expression by combining like terms

## Multplying polynomials, continued

$$(2s + 5)(s^2 + 3s - 1)$$

### Multiplying polynomials:

Multiply each term in the first polynomial by each term in the second polynomial

$$2s^3 + 6s^2 - 2s + 5s^2 + 15s - 5$$

Combine like terms

$$(25^3 + 115^2 + 135 - 5)$$

**2.** 
$$-5a^3(4a^4-3a+1)$$

**2.** 
$$-5a^3(4a^4 - 3a + 1)$$
 **3.**  $4d^2(-2d^3 + 5d^2 - 6d + 2)$ 

16. 
$$a(3a + 1) + (a + 1)(a - 1)$$

$$3a^{3} + a + a^{3} - a + a - 1$$

$$4a^{3} + a - 1$$

$$-3x^{3} + 8x + 10$$

$$-3x^{3} + 8x + 10$$

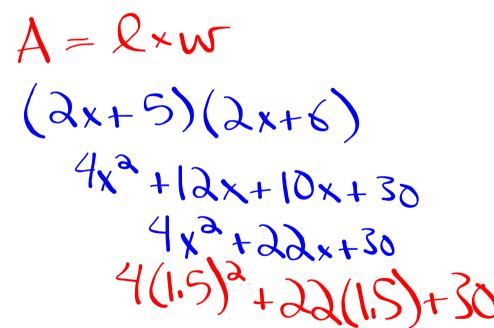
5. 
$$a(3a + 1) + (a + 1)(a - 1)$$

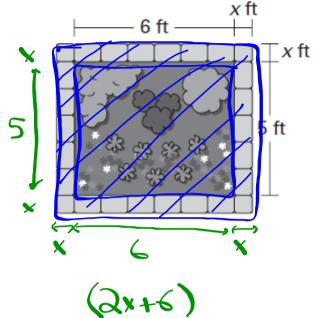
17.  $(x + 2)(x + 5) + x(4x + 1)$ 

3.  $(4x + 2)(x + 5) + x(4x + 1)$ 
 $(4x + 2)(x + 3) + (4x + 1)$ 
 $(4x + 2)(x + 3) + (4x + 1)$ 
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 $(4x + 2)(x + 3) + (4x + 1)$ 

**Flower Bed** You are designing a rectangular flower bed that you will border using brick pavers. The width of the border around the bed will be the same on every side, as shown.

- **a.** Write a polynomial that represents the total area of the flower bed and the border.
- **b.** Find the total area of the flower bed and border when the width of the border is 1.5 feet.





## Homework:

p. 565; 3-42 (every 3rd), 50