# Bell Ringer

### Thursday 9/12

Given the expression  $2x-3+8x^2-4x-5x^2+6$  find the following:

1. Standard Form

3. Name based on degree

2. Leading Coefficient

4. Name based on number of terms

4

# **Essential Question**

How can you multiply two polynomials?

$$2x(3x^{2} + 5x - 6) = 6x^{2} + 10x^{2} - 12x$$

Distribute: 
$$5n(3n^3 -)n^2 + 8) = 15n^4 - 5n^3 + 40n^4$$

#### **Use the Distributive Property to find the product.**

I do...

1. 
$$(y + 4)(y + 1)$$
  
 $y^2 + 1y + 4y + 4$   
 $y^2 + 5y + 4$ 

# G Core Concept

#### **FOIL Method**

To multiply two binomials using the FOIL Method, find the sum of the products of the

First terms, (x + 1)(x + 2)  $x(x) = x^2$ 

Outer terms, (x+1)(x+2) x(2) = 2x

Last terms. (x+1)(x+2) 1(2) = 2

 $(x + 1)(x + 2) = x^2 + 2x + x + 2 = x^2 + 3x + 2$ 

#### Use the FOIL Method to find the product.

I do...

We do...

$$(m-3)(m-7)$$
  
 $m^2-7m-3m+21$   
 $m^2-10m+21$ 

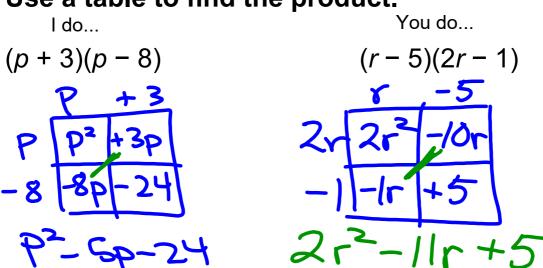
$$(x-4)(x+2)$$
  
 $x^{2} + 2x - 4x - 8$   
 $x^{3} - 2x - 8$ 

#### Use the FOIL Method to find the product

w/ Partner...

$$(n+2)(n^2+3)$$
  
 $n^3+3n+2n^2+6$   
 $n^3+2n^2+3n+6$ 

## Use a table to find the product.

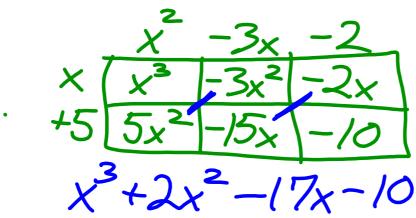


Find the each product using any method...

$$(2x + 1)(3x - 5)$$

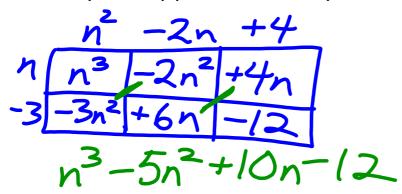
Distribute or use a table to find the product.

Find  $(x + 5)(x^2 - 3x - 2)$ .  $x^2 - 3x^2 - 2x + 5x^2 - 15x^2$ 



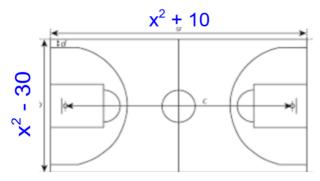
Distribute or use a table to find the product.

Find  $(n-3)(n^2-2n+4)$ .



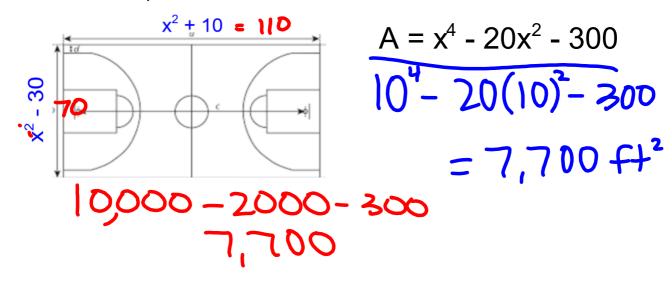
Write an **expression** that represents the AREA of the basketball

court...

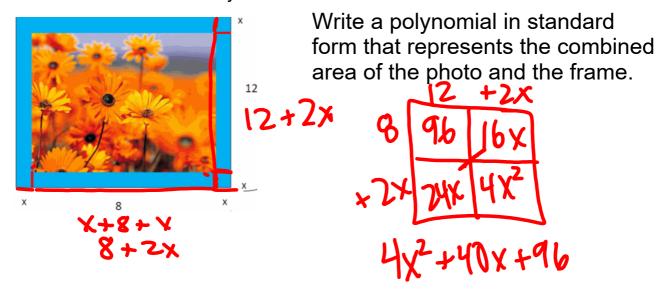


$$x^{4} - 30x^{2} + 10x^{2} - 300$$
  
 $x^{4} - 20x^{2} - 300$ 

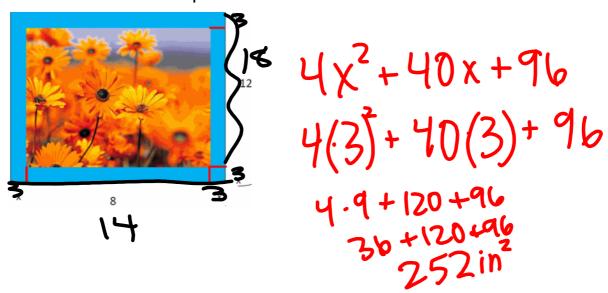
If x = 10, find the area of the basketball court.



You design a frame to surround a rectangular photo. The width of the frame is the same on every side as shown.



Find the area of the photo and frame when the width of the frame is 3 in.



**September 12, 2019** 

2.2 hw pg 73-74 #s 1-2, 3, 7, 11, 15, 19, 23, 27, 31, 35, 39, 43, 44, 52, 56-57