3/23/2015 **Bell Work** 

Please get out your assignment from Friday.

1. What is standard form?

When a polynomial is written from

largest to smallest exponent.

2. What is a leading coefficient?

The # in front after in Standard Form.

PRACTICE WITH POLYNOMIALS

Write each polynomial in standard form. Then, give the leading coefficient.

4. 
$$3x^2 - 2 + 4x^8 - x$$

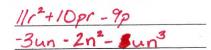
5. 
$$7 - 50j + 3j^3 - 4j^2$$

6. 
$$6k + 5k^4 - 4k^3 + 3k^2$$

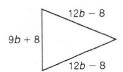
ADD OR SUBTRACT

11. 
$$(-r^2 + 8pr - p) - (-12r^2 - 2pr + 8p)$$

12. 
$$(un - n^2 + 2un^3) - (3un^3 + n^2 + 4un)$$



13. Antoine is making a banner in the shape of a triangle. He wants to line the banner with a decorative border. How long will the border be?



FIND THE PRODUCT

10. 
$$(2x + 5)(x + 6)$$

13. 
$$(x+4)(x^2+3x+5)$$

11. 
$$(m^3 - 3)(5m + n)$$

$$a^3+a^2$$

10. 
$$(2x+5)(x+6)$$
 11.  $(m^3 + 3)(5m+n)$  12.  $(a^2+b^2)(a+b)$   $2x^2+17x+30$   $5m^3+m^3n+15m+3n$   $a^3+a^2b+ab^2+b^3$ 

14. 
$$(3m+4)(m^2-3m+5)$$
 15.  $(2x-5)(4x^2-3x+1)$ 

$$(2x-5)(4x^2-3x+1)$$
8\sqrt{3}-2(9x^2+17x-5)

FIND THE PRODUCT - LOOK FOR A PATTERN

16. 
$$(5x + 2)(5x - 2)$$

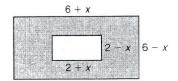
17. 
$$(10x + 7y) (10x - 7y)$$
 18.  $(x^2 + 3y) (x^2 - 3y)$ 

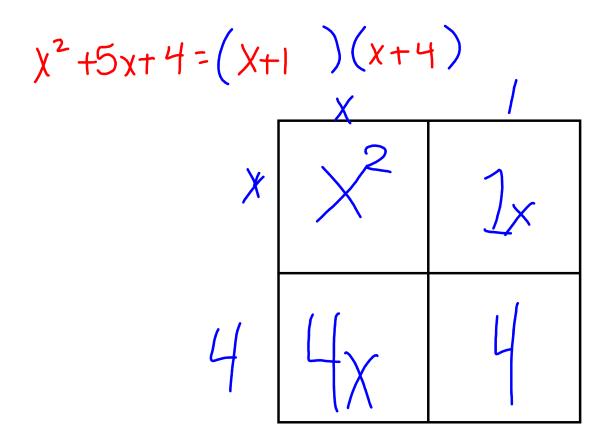
18. 
$$(x^2 + 3y)(x^2 - 3y)$$

- 19. Write a simplified expression that represents the...
  - a. area of the large rectangle.

c. area of the shaded area.

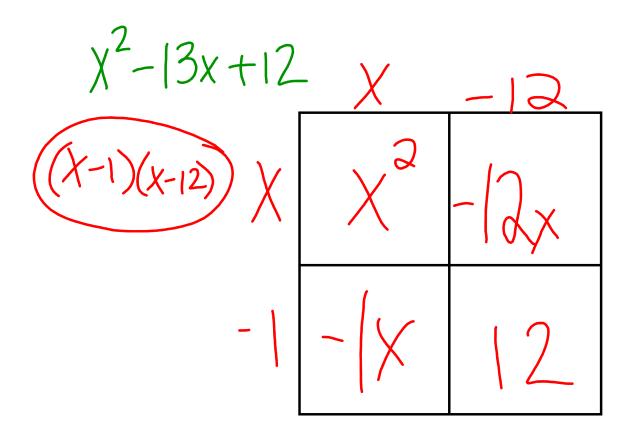


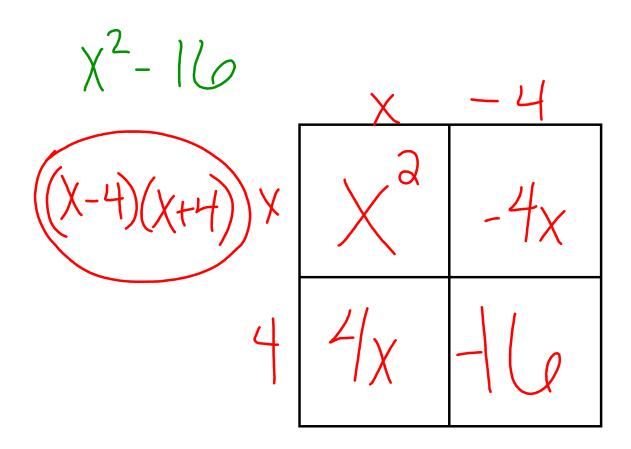


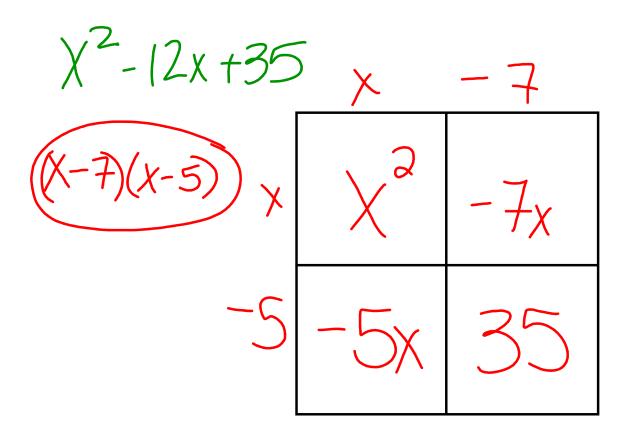


$\chi^{2} - 7x + 12$	X	- 4
$((x-4)(x-3)) \times$	<sup>(2)</sup>	- 4x
-3	-3x	12

$\chi^2 - 3\chi - 10$	X	-5
$(\chi + 3)(x-2)$ X	X	-5x
2	2x	-10







 $\frac{2x^{2}-17x-9}{(2x+1)(x-9)} = \frac{2}{2x} = \frac{9}{2x}$