

Bellwork Thursday, May 15, 2014

1. Factor.

$$28m^5n^3p^2 - 42m^3n^6p^4 + 70m^2n^9p$$

$$14m^2n^3p(2m^3p - 3mn^3p^3 + 5n^6)$$

$$7 \begin{pmatrix} 4 & -6 & 10 \end{pmatrix}$$

2.7

2. Expand each. Write answer in Standard Form.

a.  $(c + 11)(c - 5)$

$$c^2 + 6c - 55$$

b.  $(e - 9)(e - 7)$

$$e^2 - 16e + 63$$

c.  $(w - 8)^2$

$$w^2 - 16w + 64$$

When the coefficient of each variable is 1

$$(B + 10)(B - 5)$$

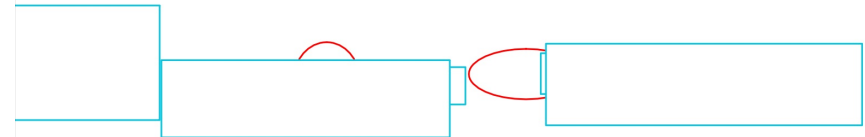
Constant      Constant

Leading  
Coefficient  
is always 1

$$B^2 + 5B - 15$$

This is always the  
sum of the constants.

This always the  
product of the constants.



3. Expand each. Write answer in Standard Form.

a.  $(3k + 7)(2k - 6)$

$$6k^2 - 18k + 14k - 42$$

$$6k^2 - 4k - 42$$

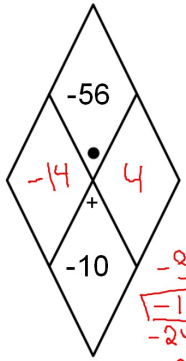
b.  $(2d + 3)(5d^2 - 4d - 10)$

$$10d^3 + 7d^2 - 38d - 30$$

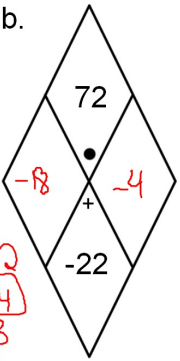
	$5d^2$	$-4d$	$-10$
$2d$	$10d^3$	$-8d^2$	$-20d$
$+3$	$+15d^2$	$-12d$	$-30$

4. Find 2 #'s that multiply to the top# and add to the bottom#.

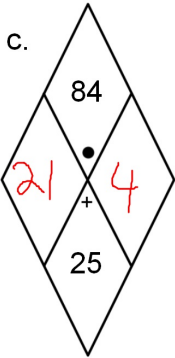
a.



b.



c.



Handwritten work for problem a:

$$\begin{array}{r}
 -36x-2 \\
 \underline{-18x-4} \\
 -24x-3 \\
 -9x-8
 \end{array}$$