

Bellwork Tuesday, May 13, 2014

1. Simplify. Give answer in Standard Form.

$$5x^2(3x^2 - x + 4) - 2x(7x^3 + 8x^2 - 3x + 5)$$

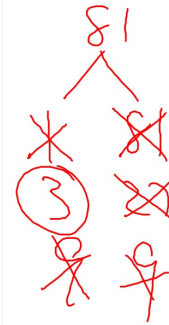
$$20x^2 + 6x^2$$

$$x^4 - 21x^3 + 26x^2 - 10x$$

2. Factor.

$$81a^4b^3c + 48a^2b^5c^4 - 42ab^6c^7$$

$$3abc^3(27a^3 + 16ab^2c^3 - 14b^3c^4)$$



3. Expand each. Write answer in Standard Form.

a) $(c + 5)(c - 8)$

$$c^2 - 3c - 40$$

b) $(4k - 1)(2k + 7)$

$$8k^2 + 28k - 2k - 7$$

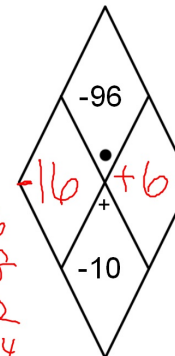
$$8k^2 + 26k - 7$$

c) $(y - 6)^2$

$$y^2 - 12y + 36$$

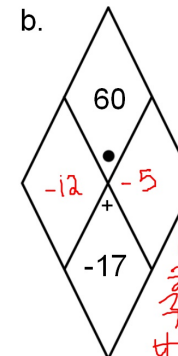
4. Find 2 #'s that multiply to the top# and add to the bottom#.

a.



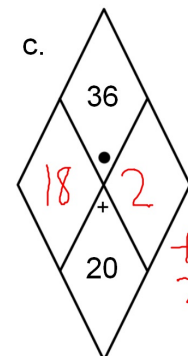
$$\begin{array}{l} 1 \cdot 96 \\ 2 \cdot 48 \\ 3 \cdot 32 \\ 4 \cdot 24 \\ 6 \cdot 16 \end{array}$$

b.



$$\begin{array}{l} 1 \cdot 60 \\ 2 \cdot 30 \\ 3 \cdot 20 \\ 4 \cdot 15 \\ 5 \cdot 12 \\ 6 \cdot 10 \end{array}$$

c.



$$\begin{array}{l} 1 \cdot 36 \\ 2 \cdot 18 \end{array}$$