

Bellwork Friday, May 16, 2014

1. Expand each.

a) $(k - 14)^2$

$$(k-14)(k-14)$$

$$k^2 - 14k + 196$$

$$-14k$$

$$k^2 - 28k + 196$$

b) $(G + 50)^2$

$$(G + 50)(G + 50)$$

$$G^2 + 50G + 50G + 2500$$

$$G^2 + 100G + 2500$$

2. Expand each.

a) $(3w + 8y)^2$

$$(3w + 8y)(3w + 8y)$$

$$9w^2 + 24wy + 24wy + 64y^2$$

$$9w^2 + 48wy + 64y^2$$

$$\uparrow$$

$$(3w)^2$$

$$\uparrow$$

$$(8y)^2$$

b) $(5a^3 - 7b^2)^2$

$$(5a^3 - 7b^2)(5a^3 - 7b^2)$$

$$25a^6 + 49b^4 - 35a^3b^2 - 35a^3b^2$$

$$25a^6 - 70a^3b^2 + 49b^4$$

3. Expand each.

a) $(c+11)(c-11)$ SQ

c^2	$-11c$	c
$11c$	-121	

c
 11

$c^2 - 121$

SQ

b) $(5R-2)(5R+2)$

$25R^2 - 4$

c) $(6x^5 + 3y^4)(6x^5 - 3y^4)$

$36x^{10} - 9y^8$

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

