

Bellwork Thursday, May 22, 2014

Expand each. Write answer in Standard Form if there is only one variable.

1. $(15y^3 - 8z^2)(15y^3 + 8z^2)$

$$225y^6 - 64z^4$$

$$(15y^3)^2 - (8z^2)^2$$

2. $(a + 21)^2$

$$a^2 + 42a + 441$$

3. $(5k - 11j)^2$

$$25k^2 - 110kj + 121j^2$$

$$(5k - 11j)(5k - 11j)$$

Factor each completely. Look for GCF first if possible.

5. $81c^{10} - 25d^{12}$

4. $N^2 - 289$
 $(n \pm 17)$

$$(n + 17)(n - 17)$$

$$(n \pm 17)$$

$$(9c^5 - 5d^6)$$

$$(9c^5 + 5d^6)$$

6. $54v^7 - 6v^5$

$$6v^5(9v^2 - 1)$$

$$6v^5(3v - 1)(3v + 1)$$

$$\begin{array}{c} 12 \\ \swarrow \quad \searrow \\ 3 \quad 4 \\ \quad \swarrow \quad \searrow \\ \quad 2 \quad 2 \end{array}$$