

Bellwork Friday, May 30, 2014

1. $8x^2 + 20x$

$4x(2x+5)$

2. $c^2 - 100$

$(c-10)(c+10)$

3. $12m^3 - 75m$

$3m(4m^2 - 25)$

$3m(2m-5)(2m+5)$

$3m(2m \pm 5)$

4. $c^2 + 20c + 75$

$(c+5)(c+15)$

5. $k^2 - 8k + 16$

$(k-4)(k-4)$

or
 $(k-4)^2$

6. $w^2 - 2w - 48$

$(w-8)(w+6)$

7. $2g^2 + 18g - 20$

$2(g+10)(g-1)$

$2(g+10)(g-1)$

8. $16p^2 - 2p - 3$

$(8p+3)(2p-1)$

$(8p+3)(2p-1)$

9. $60Q^3 + 186Q^2 - 84Q$

$$6Q(10Q^2 + 31Q - 14)$$

$$\begin{array}{r|rr} 14Q & 5Q & -2 \\ 35 & 10Q^2 & -4Q \\ \hline 31 & 35Q & -14 \end{array}$$

$$6Q(5Q-2)(2Q+7)$$