

Factor each completely.

1. $6g^2 - 17g + 12$

2. $m^2 - 81$

3. $196b^2 - 441g^2$

Bellwork Alg 2A Friday, September 9, 2016

Factor each completely.

1. $6g^2 - 17g + 12$

$$\begin{array}{c} 72 \\ -8 \quad -9 \\ -17 \end{array}$$

	3g	-4
2g	6g ²	-8g
-3	-9g	+12

$(3g-4)(2g-3)$

2. $m^2 - 81$

$(m+9)(m-9)$
or
 $m \pm 9$

← difference of perfect squares
 $a^2 - b^2$
↓
 $(a+b)(a-b)$

3. $196b^2 - 441g^2$

→ difference of perfect squares

$(14b+21g)(14b-21g)$
or
 $14b \pm 21g$

$\sqrt{196} = 14$

$\sqrt{441} = 21$