Factor each quadratic.

1.
$$6m^2 - 11m + 3$$

2.
$$x^2 + 3x - 40$$

Simplify each radical expression.

3.
$$\sqrt{72p^4}$$

4.
$$\sqrt[3]{56w^{15}}$$

Simplify each. Make sure exponents in your answer are neither zero nor negative.

$$5. \ \frac{24a^3b^{-2}}{3a^{-4}b^{-9}}$$

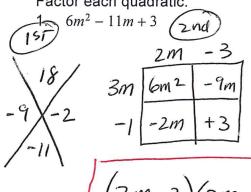
6.
$$(5c^{-4}d^3)^2(2cd^2)$$

Algebra 2B Bellwork

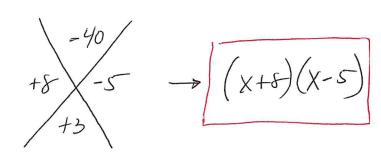
Tuesday, September 5, 2017



Factor each quadratic.



2.
$$x^2 + 3x - 40$$



Simplify each radical expression.

3.
$$\sqrt{72p^4}$$

$$\sqrt{72} \cdot \sqrt{p4}$$
 $\sqrt{36.2} \cdot \sqrt{p4}$
 $6\sqrt{2} \cdot p^{2}$
 $= \sqrt{6p^{2}\sqrt{2}}$

$$\sqrt[3]{56} \cdot \sqrt[3]{\omega^{15}}$$
 $\sqrt[3]{8.7} \cdot \sqrt[3]{\omega^{15}}$

$$2\sqrt[3]{7} \cdot \sqrt{\omega^{5}}$$

$$= 2\sqrt[3]{7} \cdot \sqrt[3]{7}$$

Simplify each. Make sure exponents in your answer are neither zero nor negative.

$$5. \ \frac{24a^3b^{-2}}{3a^{-4}b^{-9}}$$

$$\frac{24}{3} \cdot \frac{a^3}{a^{-4}} \cdot \frac{b^{-2}}{b^{-9}}$$

6.
$$(5c^{-4}d^3)^2(2cd^2)$$

$$(25c^{-8}d^{6})(2cd^{2})$$

$$50c^{-7}d^{8}$$

$$= \frac{50d^{8}}{27}$$