

Alg I 9.4 notes.notebook

9.4 Factoring to Solve Quadratics

The **BIG** Idea...

Factoring followed by the zero product property can be used to solve many quadratics.

The zero product property:

If $ab = 0$, then $a = 0$ or $b = 0$.

Solve using the zero product property.

1) $(x-4)(x+5) = 0$

2) $x(2x-3) = 0$

Solve using factoring and the zero product property.

3) $x^2 + 5x - 14 = 0$

4) $x^2 + 6x + 8 = 0$

Solve using factoring and the zero product property.

7) $16w^2 = 25$

8) $x^3 - 3x^2 - 4x + 12 = 0$

5) $2x^2 = 6x$

6) $3q^2 + q - 14 = 0$