Bell Ringer - Solve

$$120 - 6x^2 = -30$$

## Bell Ringer - Solve

## Simplifying Radicals

A radical is considered simplified when:

- No perfect squares left under the radical sign
- 2. No radical signs remain in the denominator

Product Property 
$$\sqrt{50} = \sqrt{25} \cdot \sqrt{2}$$

$$= 5\sqrt{2}$$

Look to factor out all perfect squares.

$$\sqrt{\frac{11}{4}} = \sqrt{\frac{11}{4}} = \sqrt{\frac{11}{2}}$$

$$8\sqrt{\frac{20}{4}}$$

There are multiple ways to solve this problem. Next slides show the different methods.

$$\frac{-2 \cdot \sqrt{2} \cdot \sqrt{2}}{\sqrt{5} \cdot \sqrt{2}}$$

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Simplify. 4. - 2√20 √50

$$-\frac{1}{2} \cdot \sqrt{2} \cdot \sqrt{2} = -\frac{2}{2} \cdot \sqrt{2} = -\frac{$$

4. 
$$\frac{-2\sqrt{20}}{\sqrt{50}}$$
  $\frac{.}{.}$   $\sqrt{10}$ 

$$-\frac{2\cdot\sqrt{4\cdot\sqrt{5}}}{\sqrt{25}} = -\frac{2\cdot2\cdot\sqrt{5}}{5\cdot\sqrt{2}} = \frac{1}{2}$$