



# Visual Guided Practice

Name: \_\_\_\_\_

**Learning Target:** I will solve non-linear equations.

**Form A**

**Directions:** Apply the meaning of exponents to solve each non-linear equation.

## 1. We Do Together

<p><b>a.</b></p> $x^2 = 81$ $\sqrt{x^2} = \sqrt{81}$ $\sqrt{x \cdot x} = \sqrt{\square \cdot \square}$ <p style="text-align: center;">or <math>\sqrt{\square \cdot \square}</math></p> $x = \pm \square$	<p><b>b.</b></p> $x^3 = -64$ $\sqrt[3]{x^3} = \sqrt[3]{-64}$ $\sqrt{x \cdot x \cdot x} = \sqrt{\square \cdot \square \cdot \square}$ $x = \square$	<p><b>c.</b></p> $x^2 = \frac{9}{25}$ $\sqrt{x^2} = \sqrt{\frac{\square}{\square}}$ $\sqrt{x \cdot x} = \sqrt{\frac{\square}{\square} \cdot \frac{\square}{\square}}$ <p style="text-align: center;">or <math>\sqrt{-\frac{\square}{\square} \cdot -\frac{\square}{\square}}</math></p> $x = \pm \frac{\square}{\square}$
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**2. Reflect:** What questions do you have about solving each non-linear equations?

## 3. You Do Together

<p><b>a.</b></p> $x^2 = 49$	<p><b>b.</b></p> $x^3 = 27$	<p><b>c.</b></p> $x^2 = \frac{4}{9}$
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**Learning Target:** I will solve non-linear equations.

**Form B**

**Directions:** Apply the meaning of exponents to solve each non-linear equation.

### 1. We Do Together

<p><b>a.</b></p> $x^2 = 64$ $\sqrt{x^2} = \sqrt{64}$ $\sqrt{x \cdot x} = \sqrt{\square \cdot \square}$ <p style="text-align: center;">or <math>\sqrt{\square \cdot \square}</math></p> $x = \pm \square$	<p><b>b.</b></p> $x^3 = -125$ $\sqrt[3]{x^3} = \sqrt[3]{-125}$ $\sqrt{x \cdot x \cdot x} = \sqrt{\square \cdot \square \cdot \square}$ $x = \square$	<p><b>c.</b></p> $x^2 = \frac{49}{121}$ $\sqrt{x^2} = \sqrt{\frac{\square}{\square}}$ $\sqrt{x \cdot x} = \sqrt{\frac{\square}{\square} \cdot \frac{\square}{\square}}$ <p style="text-align: center;">or <math>\sqrt{-\frac{\square}{\square} \cdot -\frac{\square}{\square}}</math></p> $x = \pm \frac{\square}{\square}$
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**2. Reflect:** What questions do you have about solving each non-linear equations?

### 3. You Do Together

<p><b>a.</b></p> $x^2 = 25$	<p><b>b.</b></p> $x^3 = 8$	<p><b>c.</b></p> $x^2 = \frac{81}{100}$
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**Learning Target:** I will solve non-linear equations.

**Form C**

**Directions:** Apply the meaning of exponents to solve each non-linear equation.

### 1. We Do Together

<p><b>a.</b></p> $x^2 = 36$ $\sqrt{x^2} = \sqrt{36}$ $\sqrt{x \cdot x} = \sqrt{\square \cdot \square}$ <p style="text-align: center;">or <math>\sqrt{\square \cdot \square}</math></p> $x = \pm \square$	<p><b>b.</b></p> $x^3 = -216$ $\sqrt[3]{x^3} = \sqrt[3]{-216}$ $\sqrt{x \cdot x \cdot x} = \sqrt{\square \cdot \square \cdot \square}$ $x = \square$	<p><b>c.</b></p> $x^2 = \frac{121}{144}$ $\sqrt{x^2} = \sqrt{\frac{\square}{\square}}$ $\sqrt{x \cdot x} = \sqrt{\frac{\square}{\square} \cdot \frac{\square}{\square}}$ <p style="text-align: center;">or <math>\sqrt{-\frac{\square}{\square} \cdot -\frac{\square}{\square}}</math></p> $x = \pm \frac{\square}{\square}$
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**2. Reflect:** What questions do you have about solving each non-linear equations?

### 3. You Do Together

<p><b>a.</b></p> $x^2 = 81$	<p><b>b.</b></p> $x^3 = -64$	<p><b>c.</b></p> $x^2 = \frac{49}{64}$
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