Square Roots

1. What positive value of x makes the following equation true: $x^2 = 289$? Check your solution.

2. A square-shaped park has an area of $400 yd^2$. What are the dimensions of the park? Write and solve an equation.

3. Find the positive value of x that makes the equation true: $x^2 = 441^{-1}$. Check your solution.

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Square Roots

1. What positive value of x makes the following equation true: $x^2 = 289$? Check your solution.

$x^2 = 289$	Check:
$\sqrt{x^2} = \sqrt{289}$ $x = \sqrt{289}$	$17^2 = 289$ 289 = 289
x = 1/	

2. A square-shaped park has an area of $400 yd^2$. What are the dimensions of the park? Write and solve an equation.

= 400	Check:
$ = \sqrt{400} $ $ = \sqrt{400} $ $ = 20 $	$20^2 = 400$ 400 = 400
z = 20	

3. Find the positive value of x that makes the equation true: $x^2 = 441^{-1}$. Check your solution.

$$x^{2} = 441^{-1}$$

$$\sqrt{x^{2}} = \sqrt{441^{-1}}$$

$$x = \sqrt{441^{-1}}$$

$$x = \sqrt{\frac{1}{441}}$$

$$x = \frac{1}{21}$$

$$x = 21^{-1}$$
Check:
(21^{-1})^{2} = 441^{-1}
$$21^{-2} = 441^{-1}$$

$$\frac{1}{21^{2}} = 441^{-1}$$

$$\frac{1}{441} = 441^{-1}$$

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