DO NOW

ALGEBRA 2 · 5 MINUTES · START RIGHT AWAY

Lesson 5-4a # Solve an Equation With One Radical

Name _____ Date _____ Per _____

1 FLUENCY

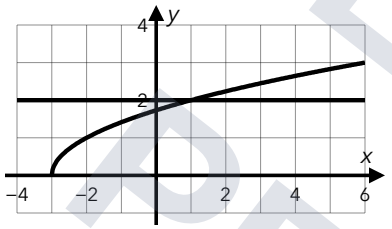
Solve. Check your answer.

$$\sqrt{2x - 1} + 3 = 8$$

$\sqrt{2x - 1}$ = ☐ $2x - 1$ = ☐ x = ☐

2 VISUAL MODEL

The graphs of $y = \sqrt{x + 3}$ and $y = 2$ are shown. Circle the intersection. Then solve $\sqrt{x + 3} = 2$ algebraically.



$x + 3$ = ☐

x = ☐

3 APPLICATION

Police use $s = \sqrt{24d}$ to estimate a car's speed s (mph) from a skid of d feet. A car was going 60 mph. How long was its skid?

d = ☐ ft

WORK

4 REASONING

Ryan solved $\sqrt{x} + 2 = 5$ by squaring both sides first: $x + 4 = 25$, so $x = 21$. Find his error and the correct solution.

correct: x = ☐

*We don't divide our effort, we **multiply** it!*

✎ Show your work ✓ Check your work ★ Try your best

Preview - the full worksheet and its answer key are at primeworksheet.com