DO NOW

ALGEBRA 2 · 5 MINUTES · START RIGHT AWAY

Lesson 2-4a **Solve a Quadratic Equation Using Square Roots**

Name _____ Date _____ Per _____

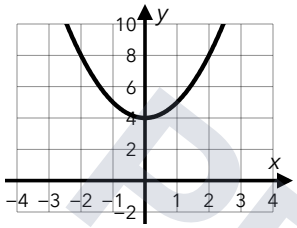
1 FLUENCY

Solve $3x^2 - 7 = 41$.

$x^2 =$ ☐ $x =$ ☐

2 VISUAL MODEL

The graph of $y = x^2 + 4$ never meets the x-axis. Solve $x^2 + 4 = 0$ anyway, using $i = \sqrt{-1}$.



Real solutions: ☐

$x^2 =$ ☐

$x =$ ☐

3 APPLICATION

A phone is dropped from a 144-ft tower. Its height is $h(t) = -16t^2 + 144$ feet after t seconds. When does it hit the ground?

$t =$ ☐ seconds

WORK

4 REASONING

Select TWO equations whose solutions are imaginary.

(A) $x^2 + 9 = 0$

(B) $x^2 - 9 = 0$

(C) $2x^2 + 50 = 0$

(D) $(x - 1)^2 = 4$

*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