DO NOW

ALGEBRA 1 · 5 MINUTES · START RIGHT AWAY

Lesson 8-3d

Analyze the Structure of Different Forms

Name _____ Date _____ Per _____

1 FLUENCY

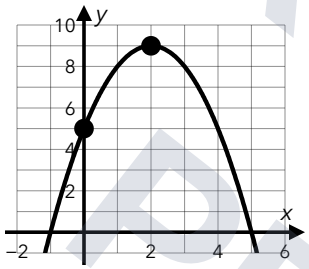
Rewrite $f(x) = (x - 3)^2 + 2$ in standard form.

$f(x) = x^2$ ☐ $x +$ ☐

WORK

2 VISUAL MODEL

Use the graph to complete both forms of the function.



Vertex form:

$f(x) = -(x -$ ☐ $)^2 +$ ☐

Standard form:

$f(x) = -x^2 +$ ☐ $x +$ ☐

3 APPLICATION

A ball's height is $h(t) = -16t^2 + 32t + 48$, which also equals $-16(t - 1)^2 + 64$. Use the better form for each answer.

Starting height: ☐ ft

Max height: ☐ ft at $t =$ ☐ s

4 REASONING

Select TWO functions equivalent to $f(x) = 2(x + 1)^2 - 8$.

(A) $2x^2 + 4x - 6$

(B) $2x^2 + 2x - 7$

(C) $2(x - 1)^2 - 8$

(D) $2(x + 3)(x - 1)$

*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