DO NOW

ALGEBRA 1 · 5 MINUTES · START RIGHT AWAY

Lesson 10-3d # Analyze End Behaviors of Graphs

Name _____ Date _____ Per _____

1 FLUENCY

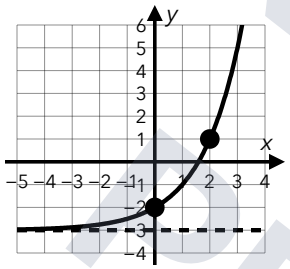
Describe the end behavior of $f(x) = -3x^2 + 5$.

As $x \to \infty$, $f(x) \to$ ☐

As $x \to -\infty$, $f(x) \to$ ☐

2 VISUAL MODEL

Describe the end behavior of the graph of $y = 2^x - 3$.



As $x \to \infty$,

$y \to$ ☐

As $x \to -\infty$,

$y \to$ ☐

3 APPLICATION

A dose of medicine leaves $A(t) = 200(0.5)^t$ mg in the body after t hours. Find $A(3)$. What does A approach as t gets very large?

$A(3) =$ ☐ mg approaches ☐ mg

WORK

4 REASONING

Nia says $f(x) = -x^2$ and $g(x) = x^2$ have the same end behavior because both are quadratic. Is she correct? Explain.

Yes or **No**

_____

_____

*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