# DO NOW

ALGEBRA 2 · 5 MINUTES · START RIGHT AWAY

Lesson 8-4c **Find the Modulus of a Complex Number**

Name _____ Date _____ Per _____

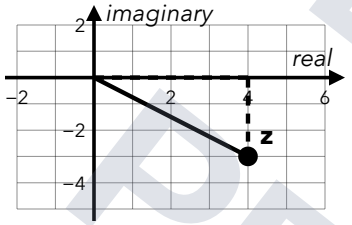
## 1 FLUENCY

Find the modulus of each complex number.

$|-5 + 12i| =$ ☐ $|-7i| =$ ☐

## 2 VISUAL MODEL

Point $z = 4 - 3i$ is plotted. Label the leg lengths of the right triangle, then find $|z|$.




horizontal leg: ☐

vertical leg: ☐

$|z| =$ ☐

## 3 APPLICATION

A robot vacuum starts at its dock (0) and ends at $15 + 8i$ (feet). How far is it from the dock? Its 20-ft cord must reach in a straight line – can it?

distance: ☐ ft reaches? **Yes** or **No**

WORK

## 4 REASONING

Select TWO numbers with modulus 10.

**A** $5 + 5i$

**B** $-8 + 6i$

**C** $7 - 3i$

**D** $-10i$

*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