What Vocabulary Will You Learn?

- axiom
- betweenness of points
- bisect
- collinear
- · congruent
- congruent segments
- construction
- · coordinate geometry
- coplanar

- · defined term
- · definition
- equidistant
- Euclidean geometry
- intersection
- line
- line segment
- · midpoint

- plane
- point
- postulate
- segment bisector
- space
- · theorem
- undefined terms
- · weighted average

Are You Ready?

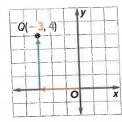
Complete the Quick Review to see if you are ready to start this module. Then complete the Quick Check.

Quick Review

Example 1

Graph and label the point Q(-3, 4) in the coordinate plane.

Start at the origin. Because the x-coordinate is negative, move 3 units to the left. Then move 4 units up because the y-coordinate is positive. Draw a dot and label it Q.



Example 2

Evaluate the expression $[-2 - (-7)]^2 + (1 - 8)^2$.

Follow the order of operations.

$$[-2-(-7)]^2+(1-8)^2$$

$$=5^2+(-7)^2$$

Subtract in parentheses.

$$= 25 + 49$$

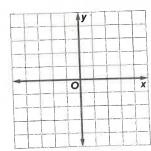
Evaluate exponents.

Add.

Quick Check

Graph and label each point on the coordinate plane.





Evaluate each expression.

5.
$$(4-2)^2 + (7-3)^2$$

6.
$$(-5-3)^2+(3-4)^2$$

7.
$$[-1 - (-9)]^2 + (5 - 3)^2$$

8.
$$[-3 - (-4)]^2 + [-1 - (-6)]^2$$

How did you do?

Which exercises did you answer correctly in the Quick Check? Shade those exercise numbers below.













