Study Guide

What's the chapter about?

Chapter 5 is about **properties of triangles**. In Chapter 5, you'll learn how to

- use properties of special lines and segments related to triangles.
- compare side lengths and angle measures in one or more triangles.

KEY VOCABULARY

▶ **Review**
- intersect, p. 12
- midpoint, p. 34
- angle bisector, p. 36
- perpendicular lines, p. 79

▶ **New**
- perpendicular bisector, p. 264

- perpendicular bisector of a triangle, p. 272
- concurrent lines, p. 272
- circumcenter of a triangle, p. 273
- angle bisector of a triangle, p. 274
- incenter of a triangle, p. 274

- median of a triangle, p. 279
- centroid of a triangle, p. 279
- altitude of a triangle, p. 281
- orthocenter of a triangle, p. 281
- midsegment of a triangle, p. 287
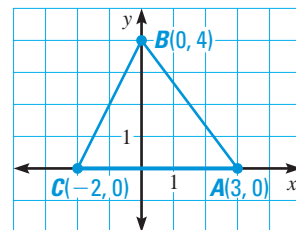- indirect proof, p. 302

Are you ready for the chapter?

SKILL REVIEW Do these exercises to review key skills that you'll apply in this chapter. See the given **reference page** if there is something you don't understand.

1. Draw a segment and label it $\overline{AB}$. Construct a bisector of $\overline{AB}$. Label its midpoint M. **(Review p. 34)**

2. Draw an angle and label it $\angle P$. Construct an angle bisector of $\angle P$. **(Review p. 36)**

Use the diagram at the right.

3. Find the coordinates of the midpoint of $\overline{BC}$. **(Review p. 35)**

4. Find the length of $\overline{AB}$. **(Review p. 19)**

5. Find the slope of $\overline{BC}$. **(Review p. 165)**

6. Find the slope of a line perpendicular to $\overline{BC}$. **(Review p. 174)**

Here's a study strategy!

Check Your Memory

Without looking at your book or your notes, write a list of important vocabulary terms and skills. Then look through the chapter and your notes as you compare them with your list. Did you miss anything?