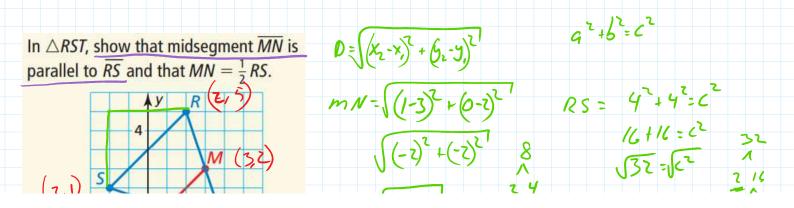
## What You Will Learn

Use midsegments of triangles in the coordinate plane. Use the Triangle Midsegment Theorem to find distances.

## Using the Midsegment of a Triangle

A **midsegment of a triangle** is a segment that connects the midpoints of two sides of the triangle. Every triangle has three midsegments, which form the *midsegment triangle*.

The midsegments of  $\triangle ABC$  at the right are  $\overline{MP}$ ,  $\overline{MN}$ , and  $\overline{NP}$ . The midsegment triangle is  $\triangle MNP$ .



В

M

A

