

Midsegments of Triangles

Today I Can

1. Use properties of midsegments to solve problems.

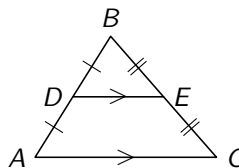
Midsegment

A segment connecting the midpoints of 2 sides of a triangle.

Triangle Midsegment Theorem

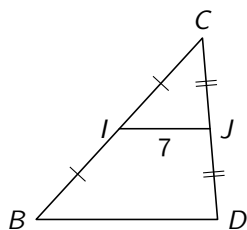
The midsegment of a triangle is parallel to to a side and half its length.

- $\overline{DE} \parallel \overline{AC}$
- $DE = \frac{1}{2}AC$

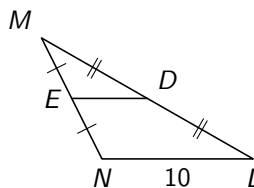


Example 1. Find each length.

(a) BD

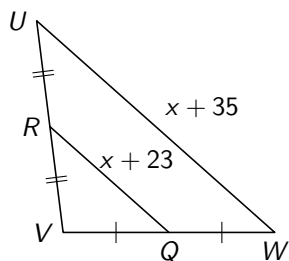


(b) ED

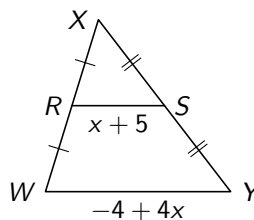


Example 2. Solve for x in each.

(a)



(b)



Example 3. Find WY

