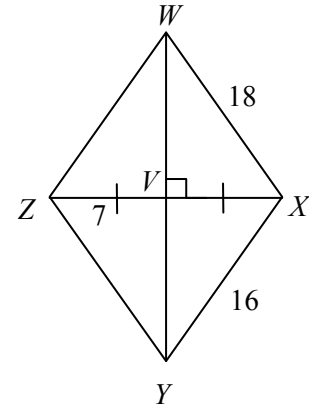


- 1) The Perpendicular Bisector Theorem states that if a point is on the perpendicular bisector of a segment, then it is \_\_\_\_\_ from the endpoints of the segment.
- 2) The Angle Bisector Theorem states that if a point is on the bisector of an angle, then the point is equidistant from the \_\_\_\_\_ of the angle.

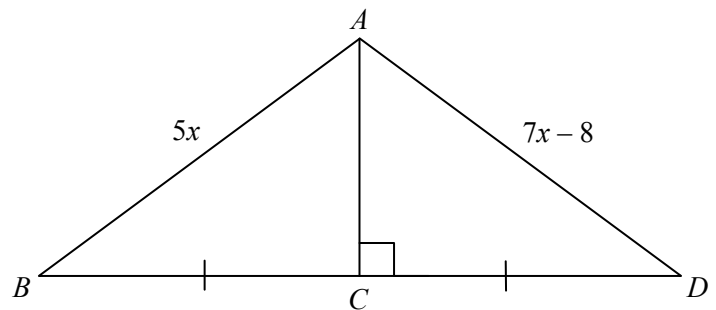
Use the figure at the right for exercises 3-6.

- 3) How is  $\overline{WY}$  related to  $\overline{ZX}$ ?
- 4) Find  $WZ$
- 5) Find  $ZY$
- 6) Find  $VX$



Use the figure at the right for exercises 7-9.

- 7) Find the value of  $x$
- 8) Find  $AB$
- 9) Find  $AD$

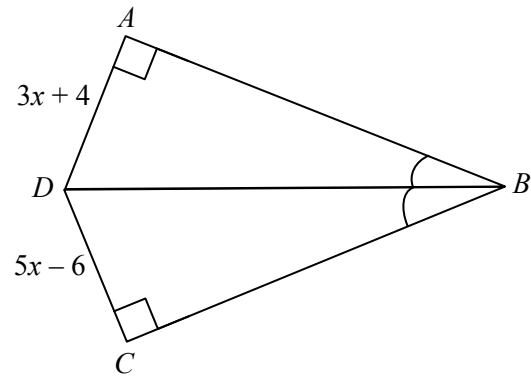


Use the figure at the right for exercises 10-12.

10) Find the value of  $x$ .

11) Find  $AD$

12) Find  $CD$



*Answer Key*

- 1) Equidistant
- 2) Sides
- 3) They are perpendicular bisectors
- 4) 18
- 5) 16
- 6) 7
- 7) 4
- 8) 20
- 9) 20
- 10) 5
- 11) 19
- 12) 19