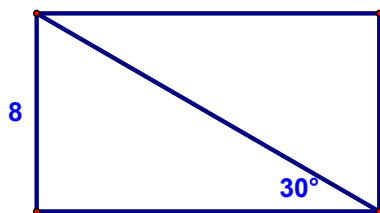


5.

The perimeter of a square is 44. Find the length of a diagonal.

6.

Find the length of the diagonal of the rectangle.



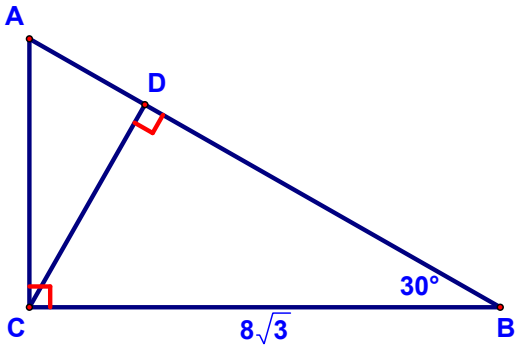
7.

Find the altitude of an equilateral triangle if a side is 6 mm long.

8.

Given: $\overline{AC} \perp \overline{BC}$, $\overline{CD} \perp \overline{AB}$,
 $m\angle B = 30^\circ$, $BC = 8\sqrt{3}$

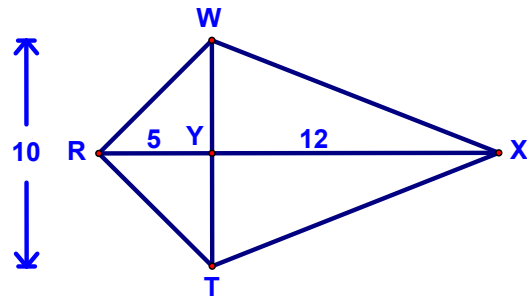
Find: CD



9.

Given: TRWX is a kite ($\overline{TR} \cong \overline{WR}$ and $\overline{TX} \cong \overline{WX}$)
 $RY = 5$, $TW = 10$, $YX = 12$

Find: a. TR
 b. WX

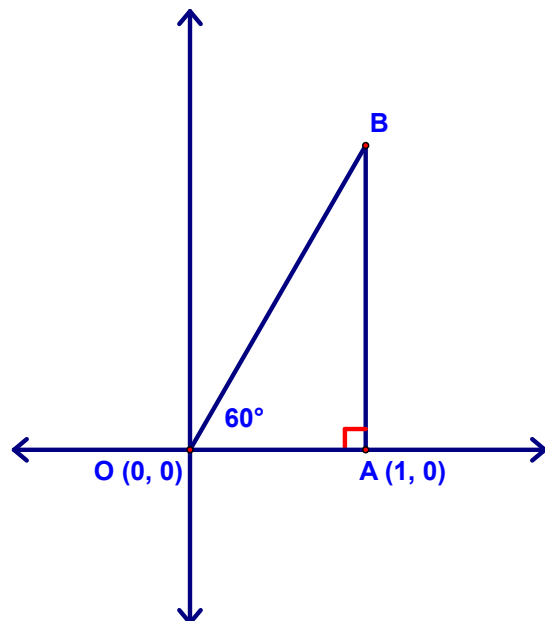


12.

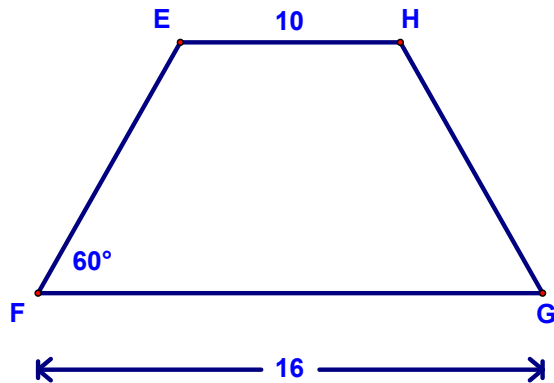
a. Find the coordinates of B

b. Find the slope of \overleftrightarrow{OB}

c. Find $\frac{AB}{OA}$ (In trigonometry, this ratio is called the tangent of $\angle BOA$)

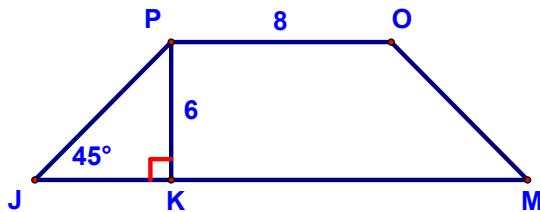


15. Find the perimeter of the isosceles trapezoid EFGH (Hint: drop altitudes of the trapezoid from E and H).



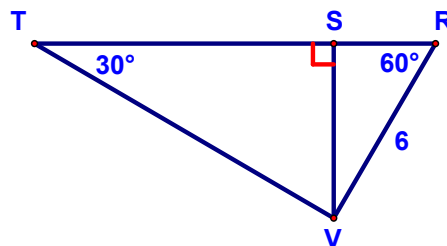
16. Given: \overline{PK} is an altitude of isosceles trapezoid JMOP.
 $PK = 6$, $PO = 8$, $m\angle J = 45^\circ$

Find: The perimeter of JMOP



17. Using the figure, find

- VS
- ST
- VT
- The ratio of the perimeter of $\triangle VSR$ to the perimeter of $\triangle VRT$

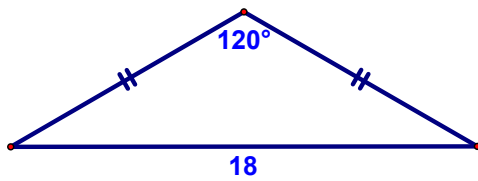


18.

One of the angles of a rhombus has a measure of 120° . If the perimeter of the rhombus is 24, find the length of each diagonal.

22.

Find the length of the altitude to the base of the isosceles triangle shown.



24.

Find x and y .

