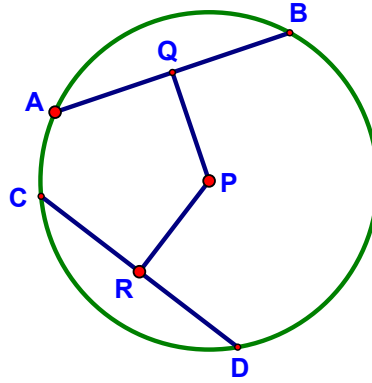


2.

Given: $\odot P$
 $\overline{PQ} \cong \overline{RP}$
 $AB = 6x + 14$
 $CD = 4 - 4x$

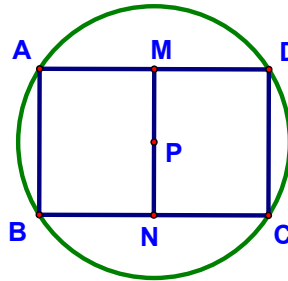
Find: AB



5.

Given: $\odot P$
 P is the midpoint of \overline{MN}
 $\overline{MN} \perp \overline{AD}$; $\overline{MN} \perp \overline{BC}$

Prove: $ABCD$ is a parallelogram



Statements

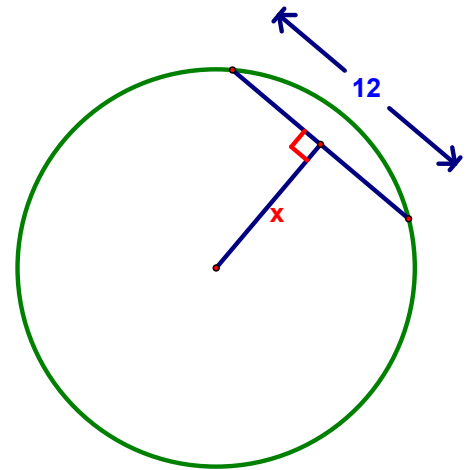
Reasons

6.

A fly is sitting at the midpoint of a wooden chord of a circular wheel. The wheel has a radius of 10 cm, and the chord has a length of 12 cm.

a. How far from the hub (center) is the fly?

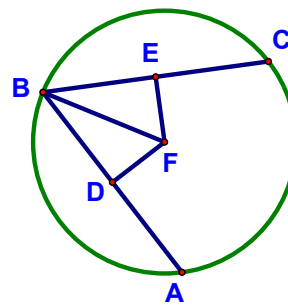
b. The wheel is spun. What is the path of the fly?



9.

Given: $\odot F$
 $\overline{FE} \perp \overline{BC}$, $\overline{FD} \perp \overline{AB}$
 \overline{BF} bisects $\angle ABC$

Prove: $\overline{BC} \cong \overline{BA}$



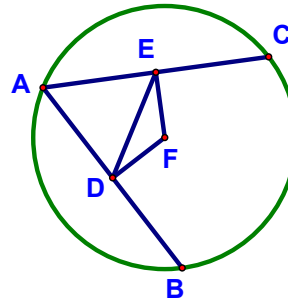
Statements

Reasons

10.

Given: $\odot F$
 $\overline{FE} \perp \overline{AC}$, $\overline{DF} \perp \overline{AB}$
 $\overline{AC} \cong \overline{AB}$

Prove: $\triangle ADE$ is isosceles

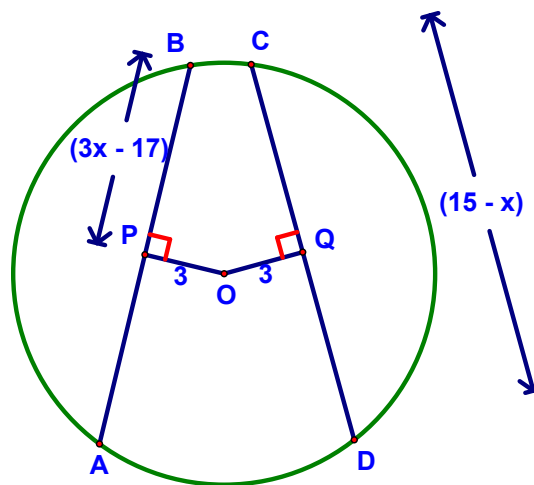


Statements

Reasons

11.

a. Find AB



b. Find the radius of $\odot O$

12.

A regular hexagon with perimeter of 24 is inscribed in a circle. How far from the center is each side?

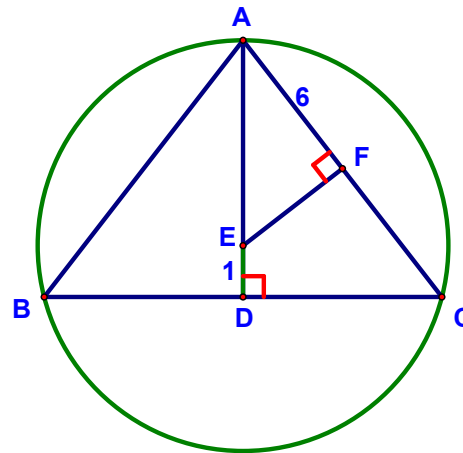
13.

A 16-by-12 rectangle is inscribed in a circle. Find the radius of the circle.

15.

Given: $\triangle ABC$ is isosceles with $\overline{AB} \cong \overline{AC}$
 $\odot E$
 $\overline{AD} \perp \overline{BC}, \overline{EF} \perp \overline{AC}$

Find: a. The radius of the circle



b. The perimeter of $\triangle ABC$