

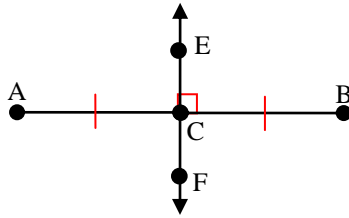
<name>

Class: Honors Geometry

Date: <date>

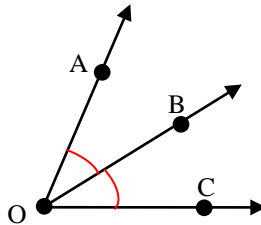
Topic: Lesson 1-5 (Basic Constructions)

What info?



1. $m\angle ECB = 90$... little red square
2. $AB = AC + CB$ (segmt add post)
3. \overline{EF} is **perpendicular** to \overline{AB} . Symbol: \perp so $\overline{EF} \perp \overline{AB}$.
4. $\overline{AC} \cong \overline{CB}$ (object congruence) and $AC = CB$ (len equal).
5. C is the midpoint (divides into half)
6. Since \overline{EF} intersects \overline{AB} at the midpoint, \overline{EF} **bisects** \overline{AB} .
7. \overline{EF} is the **perpendicular bisector** of \overline{AB} .

What info?



1. angles: $\angle AOB$, $\angle BOC$, & $\angle AOC$
2. $m\angle AOC = \angle AOB + \angle BOC$ (\angle add post)
3. $\angle AOB \cong \angle BOC$ (little red ticks) and $m\angle AOB = m\angle BOC$.
4. \overline{OB} **bisects** $\angle AOC$ (divides into $2 \cong \angle$'s)

Tools

Compass
Straight-edge
Protractor

Basic constructions

1. \cong segment (to given seg)
2. $\cong \angle$ (to given \angle)
3. \perp bis. (of given segment)
4. \angle bis. (of given \angle)