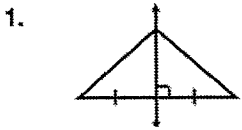
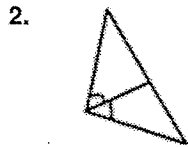


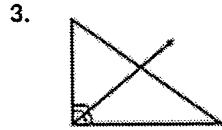
Decide whether each diagram shows a **perpendicular bisector** or an **angle bisector**.



⊥ bisector



∠ bisector



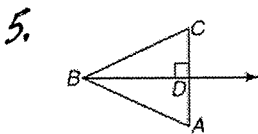
∠ bisector



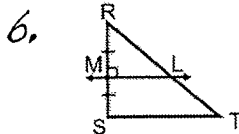
⊥ bisector

Name the **perpendicular bisector**

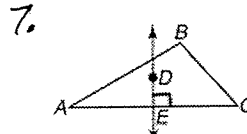
in each figure.



\overline{BD}

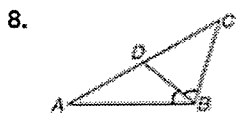


\overline{ML}



\overline{DE}

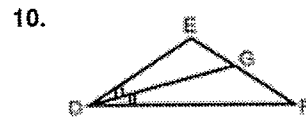
Name the **angle bisector** in each figure.



\overline{DB}

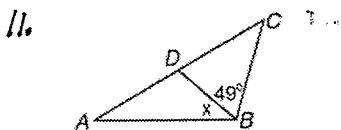


\overline{MR}



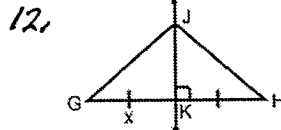
\overline{DG}

Find the value of x in each figure.



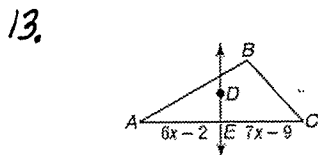
\overline{DB} is an angle bisector.

$m\angle x = 49$



\overline{JK} is a perpendicular bisector and $GH = 12$.

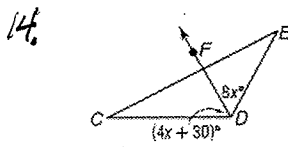
$x = 6$



\overline{DE} is the perpendicular bisector of \overline{AC} .

$6x - 2 = 7x - 9$

$7 = x$



\overline{DF} bisects $\angle CDE$.

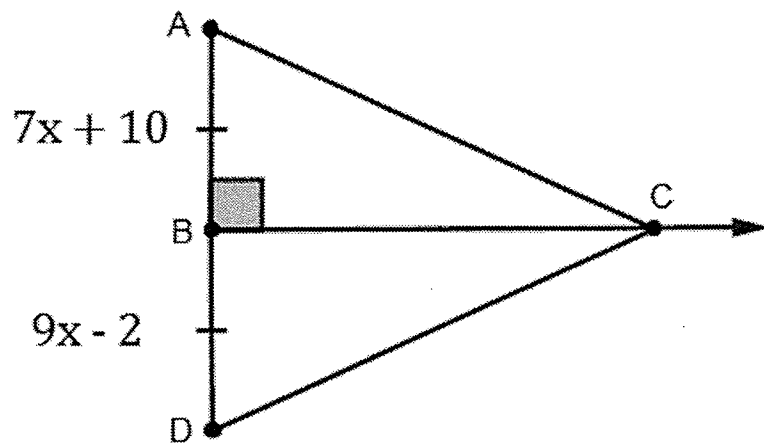
$4x + 30 = 8x$

$30 = 4x$

$\frac{15}{2} = x$

15.

BC is the perpendicular bisector to ^{AD}AC. Find x, AB, and BD.



$$7x + 10 = 9x - 2$$

$$12 = 2x$$

$$6 = x$$

$$AB = 52$$

$$BD = 52$$