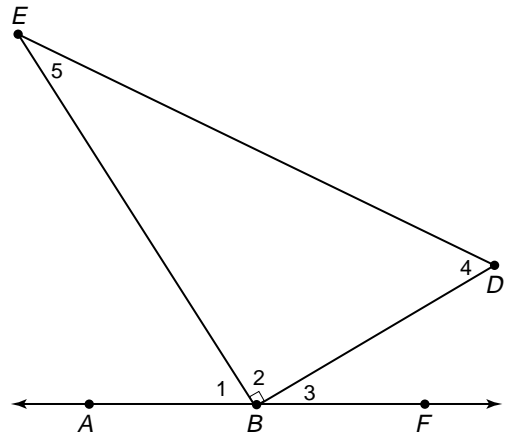


## Practice

**Exploring Angles**

Refer to the figure at the right to answer each question.

1. Give another name for  $\angle 1$ .
2. Name the vertex of  $\angle EBD$ .
3. Does  $\angle ABE$  appear to be acute, obtuse, right, or straight?
4. If  $m\angle DBE = 35$ , what is the measure of  $\angle EBF$ ?
5. Name a pair of opposite rays.
6. Name a point in the interior of  $\angle EBF$ .
7. Name three angles with  $\overrightarrow{BE}$  as a side?



In the figure,  $\overrightarrow{XP}$  and  $\overrightarrow{XT}$  are opposite rays and  $\overrightarrow{XQ}$  bisects  $\angle PXS$ . For each situation, find the value of  $x$  and the measure of the indicated angle.

8.  $m\angle SXT = 4x + 1$ ,  $m\angle QXS = 2x - 2$ ,  
 $m\angle QXT = 125$ ;  $m\angle QXS$
9.  $m\angle PXR = 3x$ ,  $m\angle RXT = 5x + 20$ ,  $m\angle RXT$
10.  $m\angle RXQ = x + 15$ ,  $m\angle RXS = 5x - 7$ ,  
 $m\angle QXS = 3x + 5$ ;  $m\angle RXS$
11.  $m\angle RXQ = 2x + 7$ ,  $m\angle RXP = 3x - 11$ ,  
 $m\angle PXS = x + 37$ ;  $m\angle QXS$
12.  $m\angle TXS = x + 3$ ,  $m\angle SXR = 2x + 9$ ,  $m\angle RXP = 4x - 7$ ;  
 $m\angle PXS$

