

# Practice 1-5

## Mixed Exercises

1. Which figures in the mystery group are zeets?

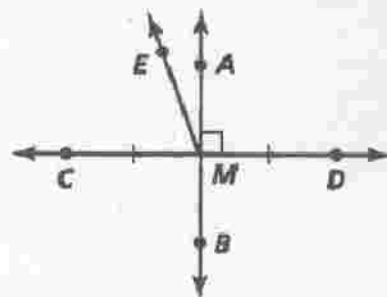


Are the following definitions acceptable? Explain.

- An *apple* is a juicy green fruit.
- A *rose* is a beautiful fragrant flower.
- A *triangle* is a geometric shape with three lines.
- A *guitar* is a string instrument usually made of wood.
- Yoga* is a mind-body discipline that was developed in the East over thousands of years.

Write true or false.

- $m\angle AMD = 90$
- $\overline{CM} \cong \overline{AM}$
- $\overline{CD} \perp \overline{EM}$
- $\overline{AM} \perp \overline{MD}$
- $\frac{1}{2}CD = CM$
- $\angle AMD \cong \angle CMA$
- $\angle EMA \cong \angle AMD$

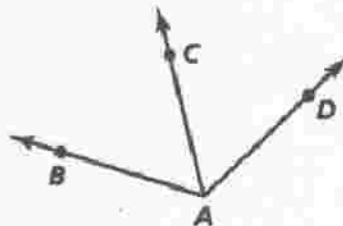


14.  $\overrightarrow{AC}$  is the bisector of  $\angle BAD$ .

$$m\angle BAC = 5x - 1$$

$$m\angle CAD = 4x + 11$$

Solve for  $x$  and  
find  $m\angle BAD$ .



$\overrightarrow{OB}$  is the bisector of  $\angle AOC$ ,

$$m\angle AOB = 2x - 4 \text{ and}$$

$$m\angle BOC = 3x - 16.$$

- Find  $m\angle AOD$ .
- Solve for  $x$ .
- Find  $m\angle BOC$ .
- $\angle AOB \cong$  \_\_\_\_\_?
- Find  $m\angle AOB$ .
- Find  $m\angle COD$ .

