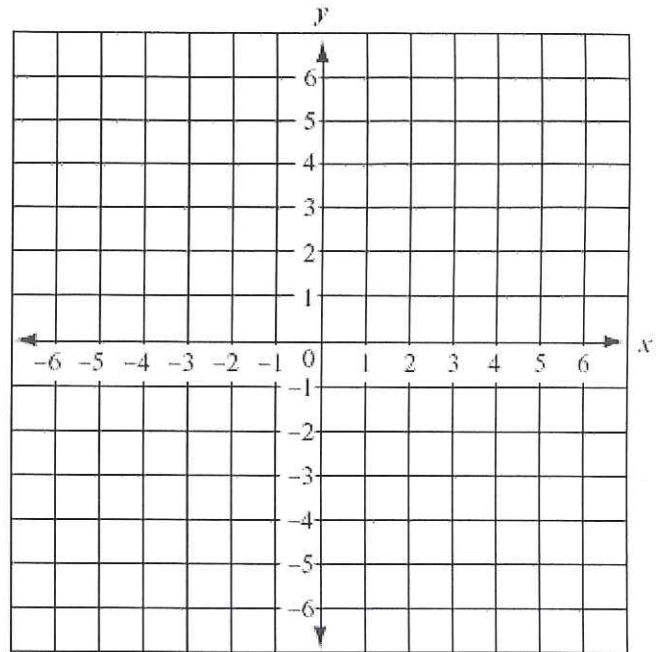


## Distance and Midpoint Review

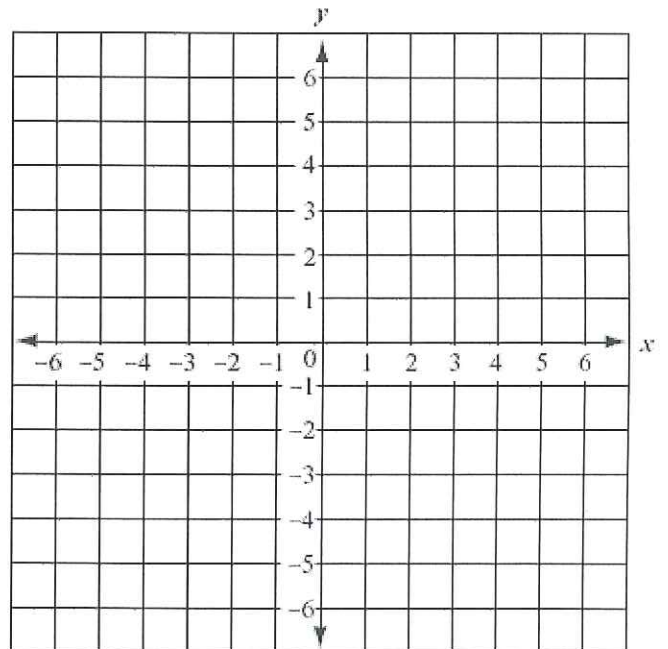
1. Find the midpoint between point A (3, 7) and point B (-5, -3). Call it point M.

Use the distance formula to find AM and MB to prove M is the midpoint.



2. Find the midpoint between point C (2, -5) and point D (-6, 3) and call it X.

Use the distance formula to find CX and XD to prove X is the midpoint.



## 1-4

## Reading to Learn Mathematics

## Angle Measure

## Pre-Activity How big is a degree?

Read the introduction to Lesson 1-4 at the top of page 29 in your textbook.

- A semicircle is half a circle. How many degrees are there in a semicircle?
- How many degrees are there in a quarter circle?

## Reading the Lesson

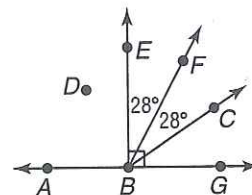
1. Match each description in the first column with one of the terms in the second column. Some terms in the second column may be used more than once or not at all.

- a figure made up of two noncollinear rays with a common endpoint
- angles whose degree measures are less than 90
- angles that have the same measure
- angles whose degree measures are between 90 and 180
- a tool used to measure angles
- the common endpoint of the rays that form an angle
- a ray that divides an angle into two congruent angles

- vertex
- angle bisector
- opposite rays
- angle
- obtuse angles
- congruent angles
- right angles
- acute angles
- compass
- protractor

2. Use the figure to name each of the following.

- a right angle
- an obtuse angle
- an acute angle
- a point in the interior of  $\angle EBC$
- a point in the exterior of  $\angle EBA$
- the angle bisector of  $\angle EBC$
- a point on  $\angle CBE$
- the sides of  $\angle ABF$
- a pair of opposite rays
- the common vertex of all angles shown in the figure
- a pair of congruent angles
- the angle with the greatest measure



## Helping You Remember

3. A good way to remember related geometric ideas is to compare them and see how they are alike and how they are different. Give some similarities and differences between *congruent segments* and *congruent angles*.