

Name \_\_\_\_\_

# 1-6B Lesson Master

**Questions on SPUR Objectives**

See pages 60–63 for objectives.

## SKILLS Objective D

In 1–8, evaluate the expression.

1.  $|-74|$

\_\_\_\_\_

2.  $-|-10 - 6|$

\_\_\_\_\_

3.  $-2|-8|$

\_\_\_\_\_

4.  $4|-2(5)|$

\_\_\_\_\_

5.  $|-4| - 7|-2|$

\_\_\_\_\_

6.  $|20| + 3|-7|$

\_\_\_\_\_

7.  $|-50| - |4 \cdot -2|$

\_\_\_\_\_

8.  $-1 \left| |-8| \cdot \left| 4 \cdot -\frac{1}{8} \right| \right|$

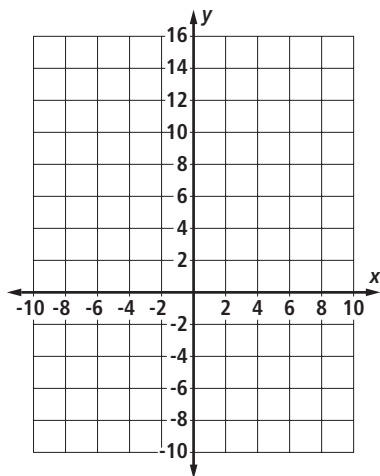
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## REPRESENTATIONS Objective L

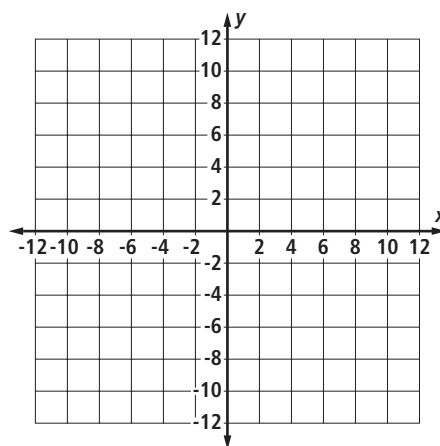
In 9 and 10, plot Y1 and Y2 on the grid and tell whether or not Y1 appears to be equivalent to Y2.

9.  $Y1 = |x^2 + 2x|$ ,  $Y2 = |x| \cdot (x + 2)$

10.  $Y1 = 3|x|$ ,  $Y2 = |-3x|$



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In 11 and 12, tell whether the statement is *true* or *false*.

11.  $|x - y| = |y - x|$

\_\_\_\_\_

12.  $5 \cdot |x| = 5 \cdot |-x|$

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**1-6B****page 2****SKILLS** Objective D

In 13–20, evaluate the expression.

13.  $-|x|$  for  $x = -61$   
\_\_\_\_\_

14.  $|-m|$  for  $m = \frac{2}{3}$   
\_\_\_\_\_

15.  $|c - d|$  for  $c = 5.6$  and  $d = -2.3$   
\_\_\_\_\_

16.  $2|-fg|$  for  $f = 20$  and  $g = \frac{1}{10}$   
\_\_\_\_\_

17.  $-|m^2 - 3|$  for  $m = 3$   
\_\_\_\_\_

18.  $-2(n + 7)^2$  for  $n = 2$   
\_\_\_\_\_

19.  $|-p + 8| - |4p|$  for  $p = \frac{3}{2}$   
\_\_\_\_\_

20.  $-|5y| \cdot |y - 3|$  for  $y = -1.2$   
\_\_\_\_\_

**REPRESENTATIONS** Objective L21. Plot  $Y1 = (x + 1) \cdot (x - 1)$  and  $Y2 = x^2 - 1$  in the box and state whether or not  $Y1$  appears to be equivalent to  $Y2$ .

In 22–25, find all values of the variable that satisfy the equation.

22.  $|x - 7| = 20$   
\_\_\_\_\_

23.  $-|y| = -10$   
\_\_\_\_\_

24.  $|x + 12| = 18$   
\_\_\_\_\_

25.  $|2y| = -6$   
\_\_\_\_\_