

Name \_\_\_\_\_

# 4-9A Lesson Master

Questions on SPUR Objectives

See pages 245–249 for objectives.

## SKILLS Objective E

1. Let  $y = |x + 3|$ . Find all solutions when:

a.  $y = 0$

a. \_\_\_\_\_

b.  $y = 1$

b. \_\_\_\_\_

c.  $y = -1$

c. \_\_\_\_\_

d.  $y = 4$

d. \_\_\_\_\_

2. Let  $t = |3r + 4| + 1$ . Find all solutions when:

a.  $t = 0$

a. \_\_\_\_\_

b.  $t = 1$

b. \_\_\_\_\_

c.  $t = 4$

c. \_\_\_\_\_

d.  $t = -1$

d. \_\_\_\_\_

In 3–6, solve and graph the solution on a number line.

3.  $|x - 1| + 1 < 5$



4.  $2(|x + 2|) < 4$



5.  $|3x - 1| \geq 2$



6.  $\left|\frac{x}{2} + 3\right| \geq 2$



## REPRESENTATIONS Objective N

7. Fill in the Blanks.  $|x + 9| = 7.6$  means the distance between   ?   and   ?   on a number line is   ?  .

In 8–10, graph  $y = |x - 4|$  below, and use the graph to solve the sentence.

8.  $|x - 4| = 2$

\_\_\_\_\_

9.  $|x - 4| < 2$

\_\_\_\_\_

10.  $|x - 4| \geq 2$

\_\_\_\_\_

