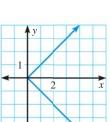


- *Justify* your answer by considering how the graphs of y = |x + h|and y = |x| + |h| are related to the graph of y = |x|.
- **35.** CHALLENGE The graph of y = a|x h| + k passes through (-2, 4) and (4, 4). *Describe* the possible values of *h* and *k*.



PROBLEM SOLVING

EXAMPLE 1 on p. 124 for Ex. 36	36. SPEEDOMETER A car's speedometer reads 60 miles per hour. The error <i>E</i> in this measurement is $E = a - 60 $ where <i>a</i> is the actual speed. Graph the function. For what value(s) of <i>a</i> will <i>E</i> be 2.5 miles per hour? TEXAS @HomeTutor for problem solving help at classzone.com
EXAMPLE 3 on p. 125 for Ex. 37	37. SALES Weekly sales <i>s</i> (in thousands) of a new basketball shoe increase steadily for a while and then decrease as described by the function $s = -2 t - 15 + 50$ where <i>t</i> is the time (in weeks). Graph the function. What is the greatest number of pairs of shoes sold in one week? TEXAS @HomeTutor for problem solving help at classzone.com
EXAMPLE 4 on p. 125 for Exs. 38–39	 38. TAKS REASONING On the pool table shown, you bank the five ball off the side at (-1.25, 5). You want the ball to go in the pocket at (-5, 0). a. Write an equation for the path of the ball. b. Do you make the shot? <i>Explain</i> how you found your answer.



TAKS PRACTICE

AND REASONING