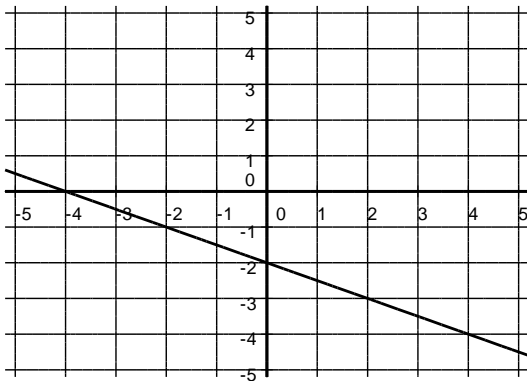
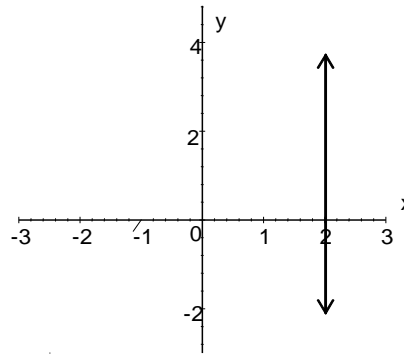


10. Write the equation of the line shown:

(a)



(b)



In problems 11 & 12, find the equation of each line, in slope-intercept form.

11a) Slope = $\frac{1}{5}$, through (0,2)

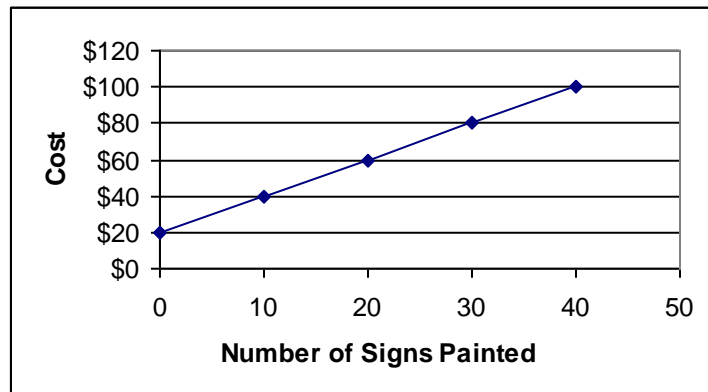
11b) Slope = -2, through (3,-1).

12. Through (-1,2) and (3,10)

13. Refer to this illustration of the cost for a painter to paint a number of signs.

(a) What is the rate of increase in cost for each additional sign?

(b) Write an equation for the cost, C , in terms of the number of signs, n .

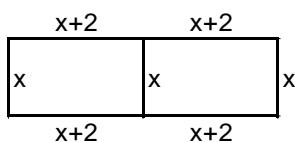


sign

Your solutions to problems 14 & 15 must include an equation and identification of the variable. Answer in a short, complete sentence.

14. The length of a rectangle is 3 feet less than twice its width. If its perimeter is 90 feet, find its dimensions.

15. A worker will lay out wood frames in two rectangles, as shown, and will pour concrete into these frames for a small patio. The length of each rectangle is 2 feet more than its width. If the total length of wood to be used is 64 feet, find the length and width of the rectangles.



(We are ignoring the thickness of the wood.)