

Show all steps on your own sheet of paper.

Point-Slope Form

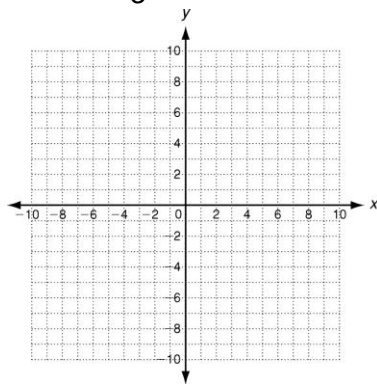
Write an equation in point-slope form for the line with the given slope that contains the given point.

1. slope = 3; (-4, 2)

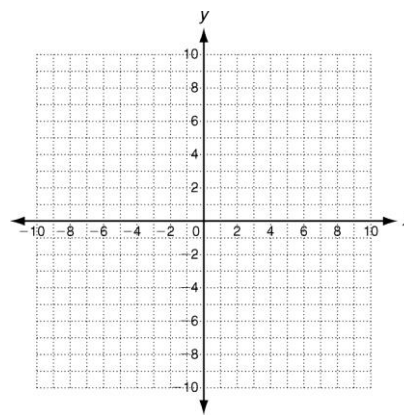
2. slope = -1; (6, -1)

Graph the line described by each equation.

3. $y + 2 = -\frac{2}{3}(x - 6)$



4. $y + 3 = -2(x - 4)$



Write the equation that describes the line in slope-intercept form.

5. slope = -4; (1, -3) is on the line

6. slope = $\frac{1}{2}$; (-8, -5) is on the line

7. (2, 1) and (0, -7) are on the line

8. (-6, -6) and (2, -2) are on the line

Find the intercepts of the line that contains each pair of points.

9. (-1, -4) and (6, 10) _____

10. (3, 4) and (-6, 16) _____

11. The cost of internet access at a cafe is a function of time.

The costs for 8, 25, and 40 minutes are shown. Write an equation in slope-intercept form that represents the function. Then find the cost of surfing the web at the cafe for one hour.

Time (min)	8	25	40
Cost (\$)	4.36	7.25	9.80