

5-3A Practice**Slope-Intercept Form**

Write an equation of the line with the given slope and y-intercept.

1. slope: $\frac{1}{4}$, y-intercept: 3

2. slope: $\frac{3}{2}$, y-intercept: -4

3. slope: 1.5, y-intercept: -1

4. slope: -2.5, y-intercept: 3.5

ALL WORK ON
looseleaf Except
"Carla's" graph.

Graph the following linear equations:

5. $y = -4x + 1$

6. $6y - 3x = 18$

Write a linear equation in slope-intercept form to model each situation.

7. A video store charges \$10 for a rental card plus \$2 per rental.
8. A Norfolk pine is 18 inches tall and grows at a rate of 1.5 feet per year.
9. A Cairn terrier weighs 30 pounds and is on a special diet to lose 2 pounds per month.
10. An airplane at an altitude of 3000 feet descends at a rate of 500 feet per mile.
11. A computer technician charges \$75 for a consultation plus \$35 per hour.
12. The population of Pine Bluff is 6791 and is decreasing at the rate of 7 per year.

WRITING For Exercises 13–15, use the following information.

Carla has already written 10 pages of a novel. She plans to write 15 additional pages per month until she is finished.

13. Write an equation to find the total number of pages P written after any number of months m .
14. Graph the equation on the grid at the right.
15. Find the total number of pages written after 5 months.

