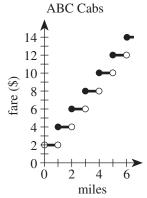
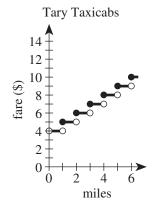
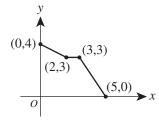
48. ABC Cabs and Tary Taxicabs both have an initial fare of a whole number of dollars for 1 passenger. The fare increases a whole number of dollars at each whole number of miles traveled. The graphs below show the 1-passenger fares, in dollars, for both cab companies for trips up to 6 miles. When the fares of the 2 cab companies are compared, what is the cheaper fare for a 5-mile trip?





- \$ 8 **G.** \$ 9 **H.** \$10 **J.** \$11 **K.** \$12
- **49.** The graph of a function y = f(x) consists of 3 line segments. The graph and the coordinates of the endpoints of the 3 line segments are shown in the standard (x,y) coordinate plane below. What is the area, in square coordinate units, of the region bounded by the graph of y = f(x), the positive y-axis, and the positive x-axis?



- **A.** 10 **B.** 13 **C.** 14 D. 15 Ε. 20
- **50.** The sum of 2 positive numbers is 151. The lesser number is 19 more than the square root of the greater number. What is the value of the greater number minus the lesser number?
 - F. 19 G. 66 H. 85 J. 91 121

- **51.** The list of numbers 41, 35, 30, *X*, *Y*, 15 has a median of 25. The mode of the list of numbers is 15. To the nearest whole number, what is the mean of the list?
 - **A.** 20
 - B. 25C. 26
 - D. 27 30 Ε.
- **52.** You are given the following system of equations:

$$y = x^2$$
$$rx + sy = t$$

where r, s, and t are integers. For which of the following will there be more than one (x,y) solution, with real-number coordinates, for the system?

- **F.** $r^2 + 4st > 0$
- **G.** $s^2 4rt > 0$
- **H.** $r^2 4st < 0$
- **J.** $s^2 4rt < 0$
- **K.** $s^2 + 4rt < 0$
- 53. The 3rd and 4th terms of an arithmetic sequence are 13 and 18, respectively. What is the 50th term of the sequence?
 - **A.** 248
 - 250 В.

 - C. 253D. 258
 - E. 263
- **54.** One of the following graphs in the standard (x,y)coordinate plane is the graph of $y = \sin^2 x + \cos^2 x$ over the domain $-\frac{\pi}{2} \le x \le \frac{\pi}{2}$. Which one?

