Systems of equations C. Math / M12

9

$$3x + 4y = -23$$

$$2y - x = -19$$

What is the solution (x, y) to the system of equations above?

- A) (-5, -2)
- B) (3, -8)
- C) (4, -6)
- D) (9, -6)

$$b = 2.35 + 0.25x$$

$$c = 1.75 + 0.40x$$

In the equations above, b and c represent the price per pound, in dollars, of beef and chicken, respectively, x weeks after July 1 during last summer. What was the price per pound of beef when it was equal to the price per pound of chicken?

- A) \$2.60
- B) \$2.85
- C) \$2.95
- D) \$3.35

18

$$x + y = -9$$

$$x + 2y = -25$$

According to the system of equations above, what is the value of x?

8. Uptown Cable, a cable TV provider, charges each customer \$120 for installation, plus \$25 per month for cable programming. Uptown's competitor, Downtown Cable, charges each customer \$60 for installation, plus \$35 per month for cable programming. A customer who signs up with Uptown will pay the same total amount for cable TV as a customer who signs up with Downtown if each pays for installation and cable programming for how many months?

F.

G.

H. 10 18

J. 18 **K.** 30

57. When graphed in the standard (x,y) coordinate plane, the lines x = -3 and y = x - 3 intersect at what point?

B. (0,-3)

C. (-3, 0) D. (-3,-3)

E. (-3,-6)