

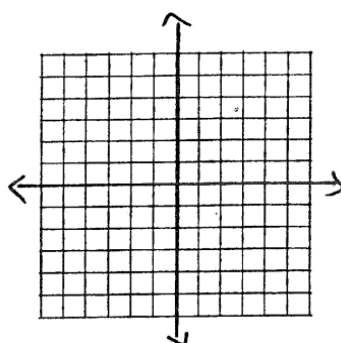
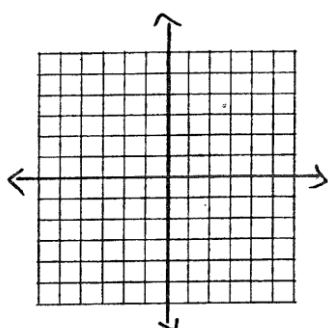
Worksheet 7.4 – Applications of Linear Systems – Textbook pages 418-424

Solve the linear system using any method.

LEVEL 1

1) $2x - 3y = 24$
 $2x + y = 8$

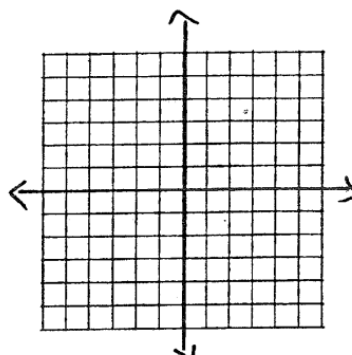
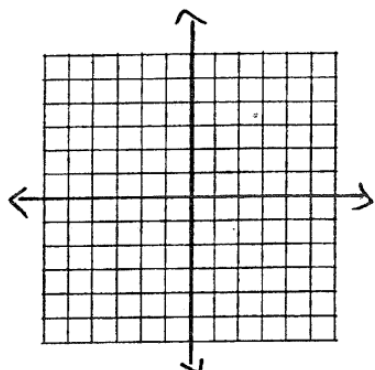
2) $y - 3x = 7$
 $y + 2x = 2$



LEVEL 2

3) $x + y = 50$
 $3x - 2y = 0$

4) $3x - y = 9$
 $x + 2y = 10$

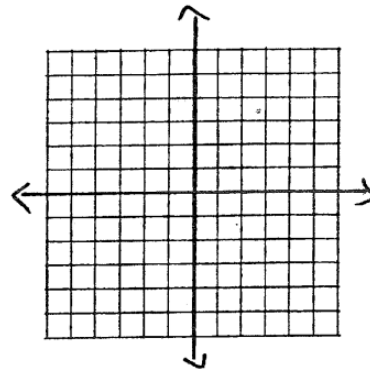
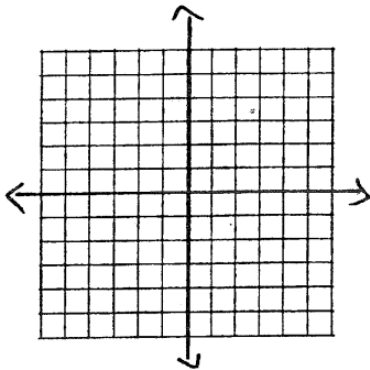


Solve the linear system using any method.

LEVEL 3

5) $4x - 6 = 2y$
 $-3x + 2y = -3$

6) $-9x + 3y = -6$
 $-3x + y = -2$



LEVEL 4

7) You are buying the meat for a cookout. You need to buy 8 packages of meat. A package of hotdogs cost \$1.89 and a package of hamburgers costs \$5.19. You spend a total of \$31.62. Write and solve a system of equations to find the number of packages of each type of meat bought.

8) A sporting goods store sells right-handed and left-handed baseball gloves. In one month, 12 gloves were sold for a total revenue of \$561. Right-handed gloves cost \$45 and left-handed gloves cost \$52. Find the number of each type of glove sold. Write a system and solve.