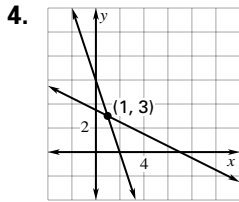


# Answer Key

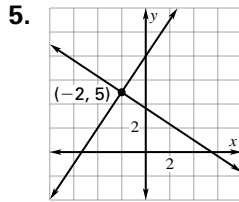
## Practice C

1.  $(1, \frac{1}{2})$  is a solution. 2.  $(-\frac{1}{3}, \frac{3}{8})$  is a solution

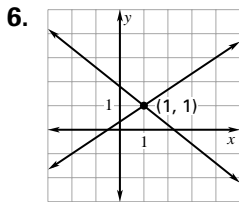
3.  $(-\frac{1}{2}, \frac{3}{2})$  is *not* a solution.



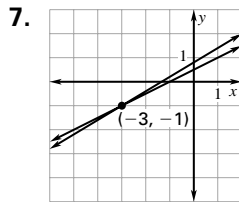
(1, 3)



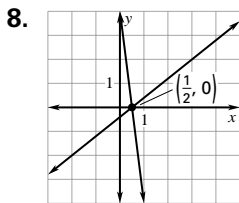
(-2, 5)



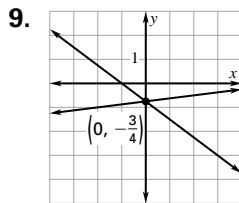
(1, 1)



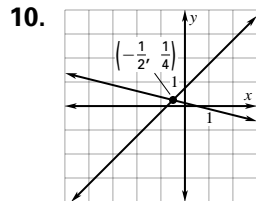
(-3, -1)



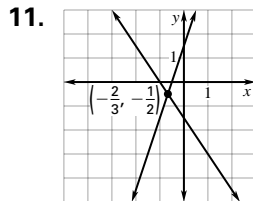
$(\frac{1}{2}, 0)$



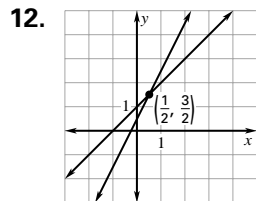
$(0, -\frac{3}{4})$



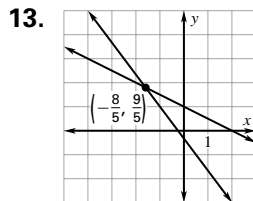
$(-\frac{1}{2}, \frac{1}{4})$



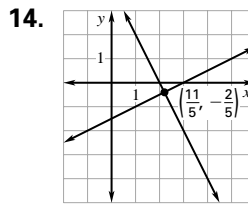
$(-\frac{2}{3}, -\frac{1}{2})$



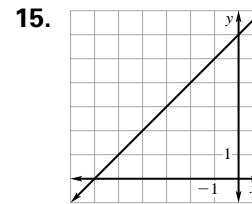
$(\frac{1}{2}, \frac{3}{2})$



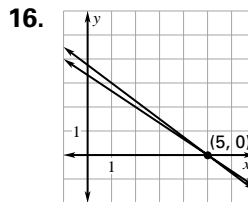
$(-\frac{8}{5}, \frac{9}{5})$



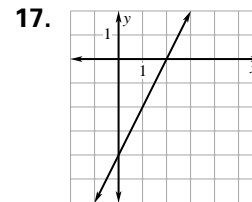
$(\frac{11}{5}, -\frac{2}{5})$



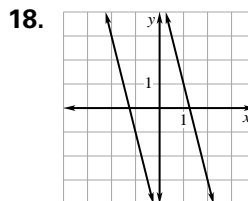
infinitely many solutions



(5, 0)



infinitely many solutions



no solution

19. consistent and dependent

20. inconsistent

21. consistent and independent

In Exercises 22–24, sample answers are given.

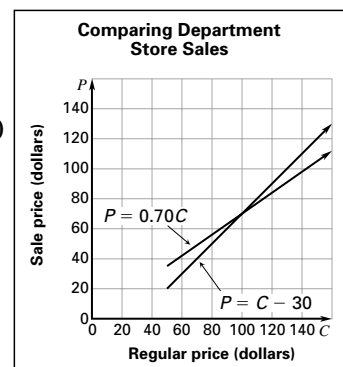
22.  $x + y = 6$   
 $2x + 2y = 8$

23.  $x + y = 4$   
 $2x + 2y = 8$

24.  $x + y = 4$   
 $2x + y = 6$

25. The lines look parallel, but one has a slope of  $\frac{9}{10}$  and the other has a slope of  $\frac{19}{20}$ . So, they are not parallel and therefore intersect.

26.  
 $P = C - 30$ ,  
 $C > 50$   
 $P = 0.70C$ ,  $C > 50$   
You must buy less than \$100.



27.  $4x + 8y = 100$

$x + y = 20$

15 multiple-choice, 5 essay