7. (6, 13)

8. (16, 14)

9. $(-1, 0)$

10. $(-1, -3)$

11. **a.** $c = 10t + 8$, $c = 12t$

b. (4, 48); the cost is the same whether you buy 4 tickets for a cost of \$48 online or at the door.

12. A, III; B, II; C, I

13. No; a solution to the system must be on both lines.

14. No; two lines intersect in no points, one point, or an infinite number of points.

15. The graphs of the equations both contain the point $(-2, 3)$.

20. No solution; the lines have the same slope and different y-intercepts so they are parallel.

21. Infinitely many solutions; the lines are the same.

22. Infinitely many solutions; the lines are the same.

23. One solution; the lines have different slopes so they intersect.

24. $b = 2.5t + 40$, $b = 5t$; 16 weeks

25. **a.** Answers may vary. Sample: $y = 2x + 8$

b. Answers may vary: Sample: $y = \frac{1}{2}x + 7$

c. Answers may vary: Sample: $2y = x - 4$