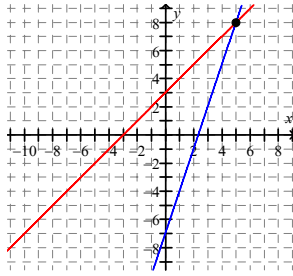


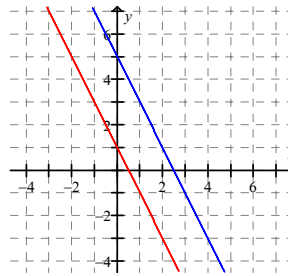
Odd-Numbered Answers to Exercise Set 6.1: 2x2 Linear Systems

1. Graph:



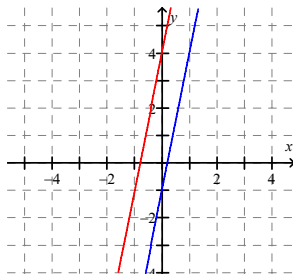
The lines intersect in one point: $(5, 8)$

9. Graph:



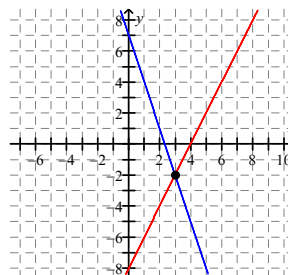
There is no solution, since the lines are parallel and do not intersect.

3. Graph:



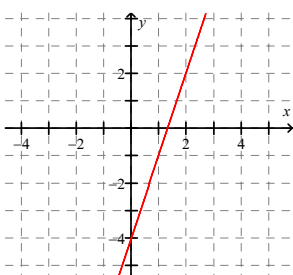
The lines are parallel.

11. Graph:



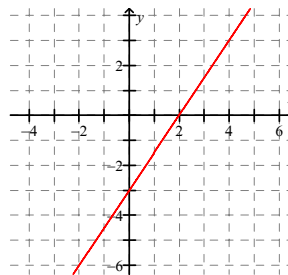
Solution: $(3, -2)$

5. Graph:



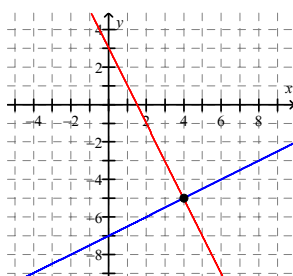
The two equations represent the same line.

13. Graph:



There are infinitely many solutions, since the two equations represent the same line and intersect in an infinite number of points. The solutions are of the form: $(x, \frac{3}{2}x - 3)$

7. Graph:



Solution: $(4, -6)$

15. $(-10, -2)$

17. $(3, 7)$

19. Infinitely many solutions, of the form: $(x, -2x + 10)$

21. $(4, \frac{1}{3})$

23. $(3, 5)$

Odd-Numbered Answers to Exercise Set 6.1: 2x2 Linear Systems

25. No solution

27. $(1, -4)$

29. $(2, 1)$

31. Infinitely many solutions, of the form: $(x, -\frac{1}{2}x - \frac{7}{4})$

33. $(-1, 4)$

35. No solution

37. $(2, -\frac{3}{4})$

39. $(2, 6)$

41. $(-2, 3)$

43. Infinitely many solutions, of the form: $(x, -\frac{2}{5}x + \frac{3}{5})$