

## 5.1 Solve Systems of Linear Equations

1. (a) yes (b) no
3. (a) yes (b) no
5. (a) yes (b) no
7. (a) no (b) yes
9.  $(-2, 3)$
11.  $(1, 2)$
13.  $(0, 2)$
15.  $(2, 4)$
17.  $(2, -1)$
19.  $(1, 2)$
21.  $(3, 2)$
23.  $(1, 1)$
25.  $(-1, -4)$
27.  $(3, 3)$
29.  $(-5, 6)$
31.  $(6, -2)$
33.  $(3, 2)$
35.  $(1, 3)$
37.  $(-3, -1)$
39. no solution
41. no solution
43. no solution
45. infinitely many solutions
47. infinitely many solutions
49.  $(2, 2)$
51. 0 solutions
53. 0 solutions
55. 0 solutions
57. consistent, 1 solution
59. infinitely many solutions
61. infinitely many solutions
63. Molly needs 16 ounces of strawberry juice and 48 ounces of water.
65. Enrique needs 8 ounces of nuts and 16 ounces of water.
67. Leo should plant 50 tulips and 300 daffodils.
69. There is an infinite number of possible solutions to the system of equations.