

Chapter 7 answers

7.1

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|------------------------|-------------|-------------|-----------------|-----------------|-------------|
| 1. No | 3. No | 5. Yes | 7. No | 9. Yes | 11. Yes |
| 13. (2, 1) | 15. (4, 3) | 17. (1, 2) | 19. (-4, 3) | 21. No Solution | |
| 23. Infinite Solutions | | 25. (3, -2) | 27. (2, 3) | 29. (0, -2) | |
| 31. (-3, -6) | 33. (0, -3) | 35. (7, -2) | 37. No Solution | | 39. (-3, 2) |
| 41. Infinite Solutions | | 43. (2, 0) | 45. No Solution | | |

7.2

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|------------------------|-----------------------------------|------------------------------------|---------------------------------------|--------------|-----------------|
| 1. (-4, 5) | 3. (-7, -4) | 5. (-2, -5) | 7. (-9, 4) | 9. (2, 4) | 11. No Solution |
| 13. (0, 4) | 15. Infinite Solutions | | 17. (3, 7) | 19. (7, -4) | 21. (4, -9) |
| 23. (1, 8) | 25. (1, -3) | 27. $(-6, -\frac{4}{5})$ | 29. $(-\frac{7}{2}, 3)$ | 31. (-9, -5) | |
| 33. Infinite Solutions | | 35. No Solution | | 37. (6, 2) | 39. (-5, 3) |
| 41. (2, -7) | 43. $(-\frac{2}{5}, \frac{1}{4})$ | 45. $(-\frac{3}{2}, -\frac{2}{3})$ | 47. $(-\frac{60}{13}, \frac{60}{13})$ | 49. (3, -2) | |

7.3

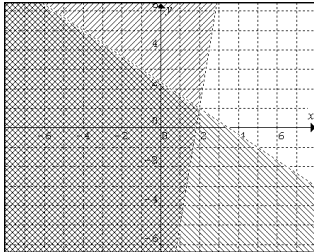
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|---------------------------------------|-------------|-------------------------|-----------------|-------------------------|-------------------------|
| 1. (-2, 6) | 3. (-4, -1) | 5. (-3, 7) | 7. (-1, -6) | 9. (-5, 1) | 11. (7, -3) |
| 13. (9, -3) | 15. (-8, 3) | 17. (5, -2) | 19. No Solution | 21. Infinite Solutions | |
| 23. (5, -6) | 25. (3, 0) | 27. $(-\frac{1}{3}, 5)$ | 29. (2, -6) | 31. $(\frac{5}{4}, -3)$ | 33. $(-2, \frac{2}{3})$ |
| 35. (3, -2) | 37. (1, -5) | 39. Infinite Solutions | | 41. No Solution | |
| 43. $(-\frac{60}{13}, \frac{60}{13})$ | 45. (3, -2) | 47. (3, 1) | 49. No Solution | 51. Infinite Solutions | |
| 53. $(-3, -\frac{2}{5})$ | 55. (7, 2) | | | | |

7.4

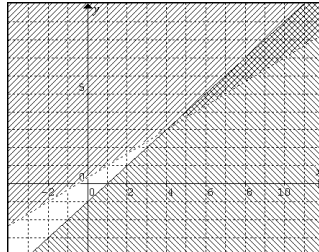
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|--|--|-----------------------|
| 1. 7 apple fritters | 3. 40 fluorescent bulbs | 5. \$1.75 for popcorn |
| 7. 21 nickels, 13 quarters | 9. 15 Snickers, 12 Licorice Whips | 11. \$12 for pizza |
| 13. \$2 for pencils, \$0.75 for paper | 15. 13 short answer, 7 true/false | |
| 17. 19 point after's, 28 field goals | 19. 4 birdies, 5 bogeys | |
| 21. 1200 lbs of 8%, 600 lbs of 20% | 23. 20 L of 30%, 10 L of 60% | |
| 25. 6.25 grams of 90%, 18.75 grams of 70% | 27. 80 ml of 40%, 10 ml of 58% | |
| 29. 2.2 cups of rum, 1.8 cups of Coke | 31. 300 lbs of 10%, 200 lbs of 60% | |
| 33. 75 ounces of 25%, 25 ounces of 77% | 35. 10 grams of 10% gold | |
| 37. 18.75 lbs of 12%, 31.25 lbs of 20% | 39. 857.1 L of 5.5%, 1142.9 L of 2% | |
| 41. 17 miles per hour | 43. 3 hours | 45. Jon |
| 47. Shawn swims 4 mph, river current is 1 mph | 49. 10 mph for plane, 2 mph for wind | |
| 51. 18 mph for boat, 2 mph for current | 53. 16 mph for boat, 4 mph for current | |
| 55. 24 kilometers per hour for boat, 4 kilometers per hour for current | | |
| 57. 340 mph for the plane | 59. 140 mph for plane, 30 mph for wind | |

7.5

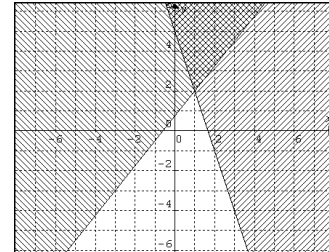
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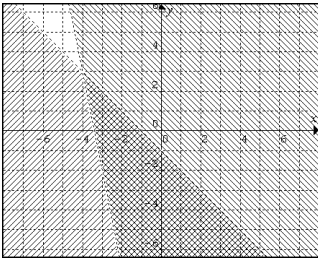
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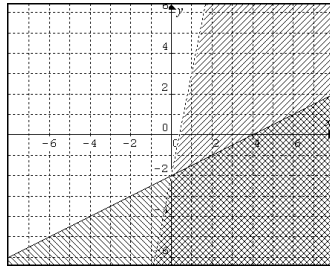
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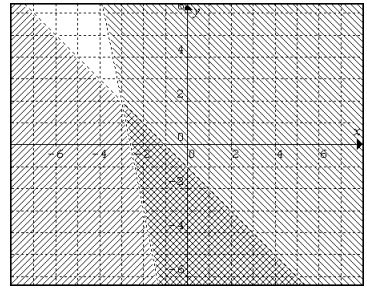
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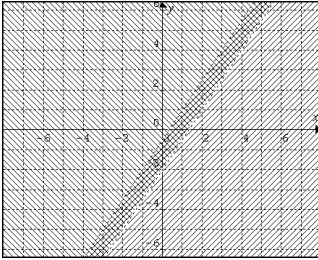
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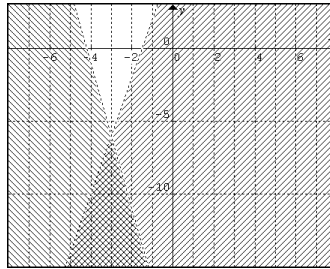
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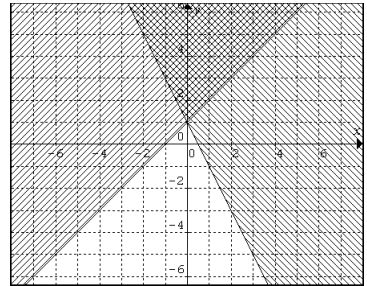
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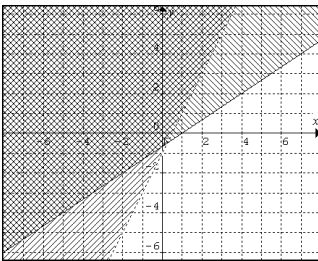
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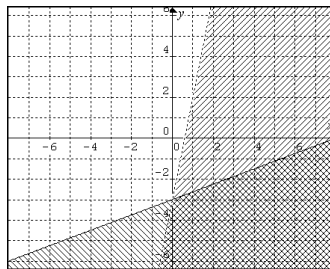
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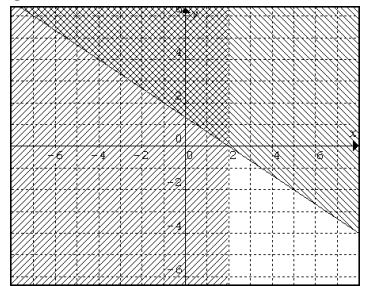
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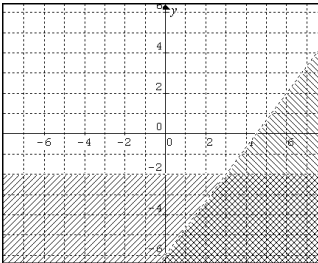
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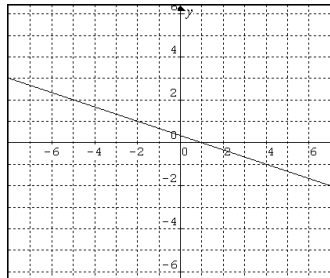
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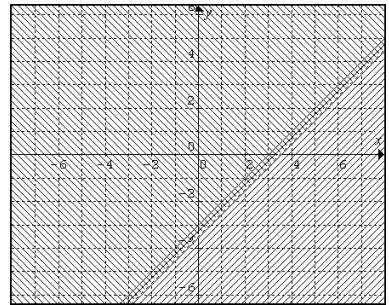
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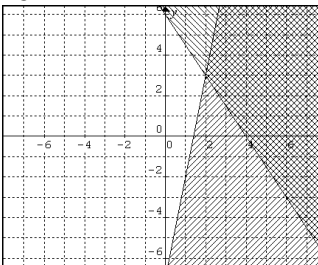
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25.

