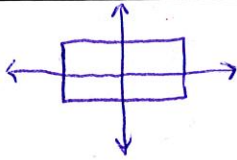
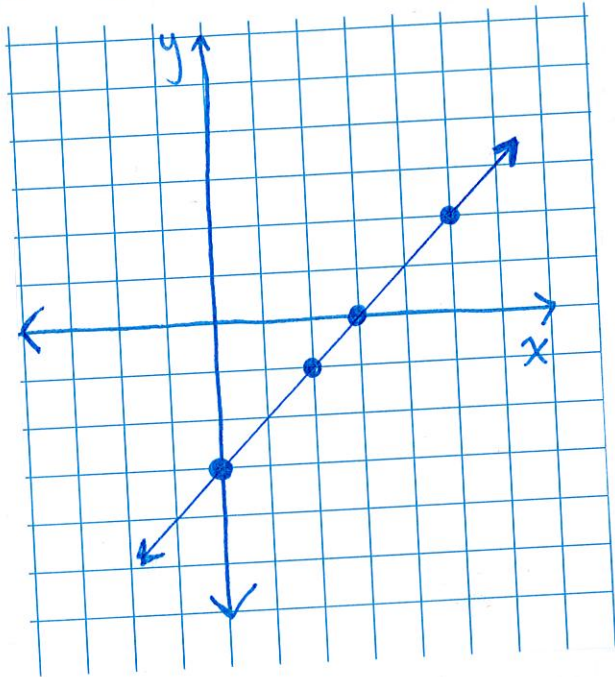


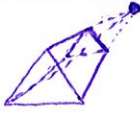
1. #172	2. $\frac{4}{3}$	3. 3 socks
4. Yes $4 = \frac{1}{2}(2) + 3$ $4 = 1 + 3$ $4 = 4 \checkmark$	5. 	6. B.
7. a. $154m^2$ b. $44m$	8. a. πcm^2 b. $2\pi cm$	9. $4 - 11 = t$ $t = -7^\circ F$
10. $m = -1.4$	11. $x = 10.7$	12. $36m^2$
13. $30m$	14. a. $-8m + 28x - 36$ b. $3(x^2 + x + 1)$	15. $-8x$
16. $3\frac{9}{10}$	17. $2\frac{7}{10}$	18. 2
19. 2	20. $\frac{2}{27}$	21. 7
22. $8x^6y^3$	23. a. 0.55 b. 55%	24. a. {SA, SM, AS, AM, MS, MA} b. $\frac{2}{3}$
25. $6y$	26. $3x^2 + 3x + 3$	27. $E = 40$
28. $3\pi ft^2$	29. 0 cm	30. a. Yanos subtracts 3 from Xena's number b. $y = x - 3$ c. (on back)

#30 $y = x - 3$

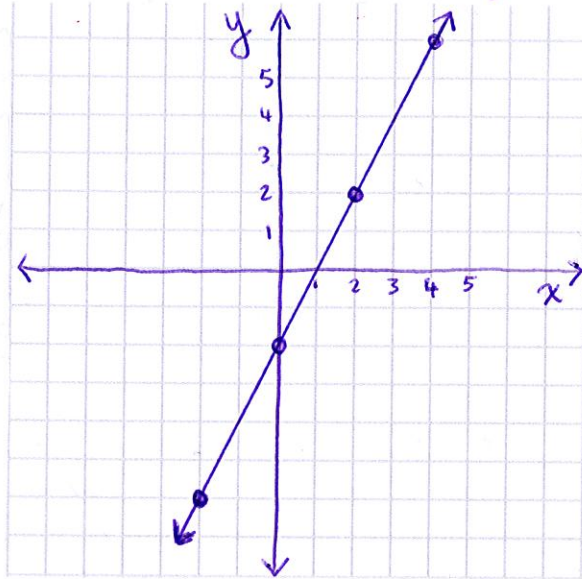


Homework Answer Key

Course 3 Lesson # 42

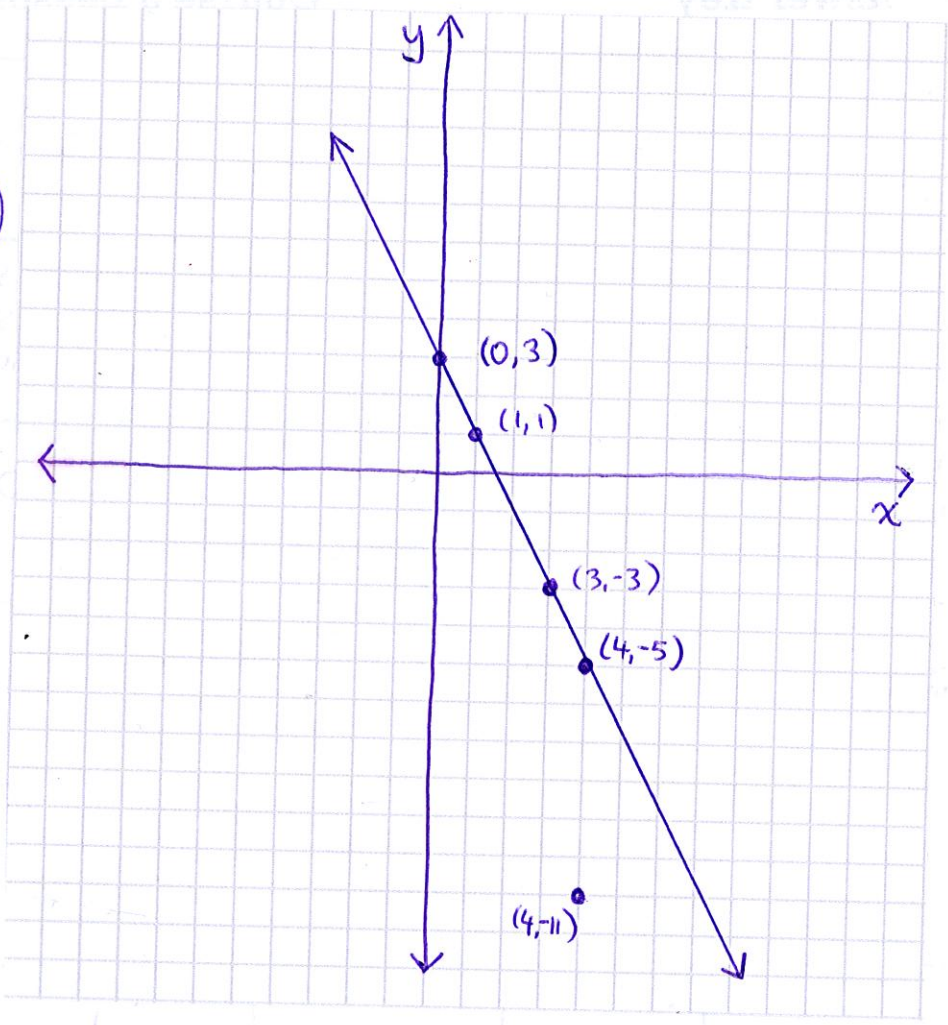
1. \$220	2. 7 to 3 or $\frac{7}{3}$	3. 2500 m^3 660,000 gallons of water
4. yes. $y = \frac{1}{4}x + 1$ $3 = \frac{1}{4}(8) + 1$ $3 = 2 + 1 \quad 3 = 3 \checkmark$	5. a.  b. triangular prism	6. D. $\triangle B$ and $\triangle C$ are congruent; both are similar to $\triangle A$
7. a. 616 ft^2 b. 88 ft	8. 12 weeks	9. a. multiply x by 2 then subtract 2 b. $y = 2x - 2$ c. (see graph on back)
10. 48	11. $4\frac{1}{8}$	12. $\frac{5}{27}$
13. 4	14. $\frac{1}{16}$	15. $-21x$
16. $s = -4.3$	17. $m = 20.6$	18. 0.374 in^3
19. a. $-12n + 18w - 15$ b. $8(y^2 + y + 1)$	20. a. $\frac{1}{5}$ b. $\frac{3}{5}$	21. a. $8\pi \text{ m}$ b. $16\pi \text{ m}^2$
22. $\frac{5}{1} = \frac{c}{20} \quad c = 100$ cars	23. $x = 2, -2$	24. no solution
25. $x = 3, -3$	26. $x = 16, -16$	27. $-255 + 65 - 25 = d$ $d = -215$ depth is 215 m below the surface.
28. $2xy + 3y$	29. $x^2 + 2x + 6$	30. C. (A+B are not aligned with the origin; D. is not a straight line)

#9

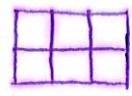


1. 5 miles north	2. 1800 trees	3. 27 mph west
★ 4. 198 in ³	5. 333 in ² ★	6. 6 edges 4 faces 4 vertices
★ 7. (4, -11) is not on the line (see graph on back) ★	8. a. 36 π in ² b. 12 π in ★	9. y = 50x
10. x = 12.1	11. x = 1.94 ★	12. 3900 yd ²
13. 300 yards ★	14. a. -5x ² + 5x - 20 b. 7(x+1)	15. 4w
16. 0	17. $\frac{1}{8}$	18. $\frac{1}{4}$
19. $\frac{5}{8}$	20. 12	21. x = 6, -6
22. x = 50, -50	23. a. 0.5% or $\frac{1}{2}$ % b. $\frac{1}{200}$	24. a. 0.8 $\bar{3}$ b. 83 $\frac{1}{3}$ %
25. 2 ³ · 3 ² · 5 ³ = 9000	26. a. $\frac{1}{10}$ or 0.1 b. $\frac{1}{4}$ or 0.25 c. No, the #s picked were in different frequencies	27. 3x ² + x
28. 294	29. a. 120° b. 157 in ² ★	30. a. (see back for drawing) b. 46 cm ² c. 14 cm ³

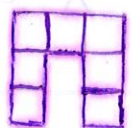
#7



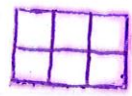
#30



Front view



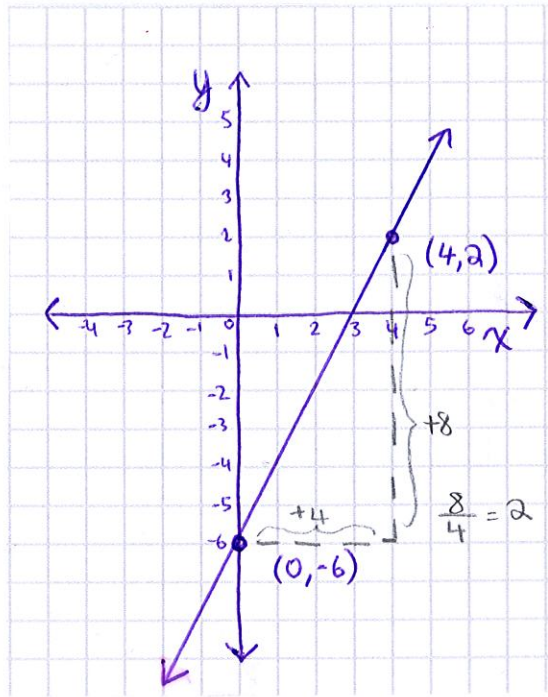
Top view




Right-side view

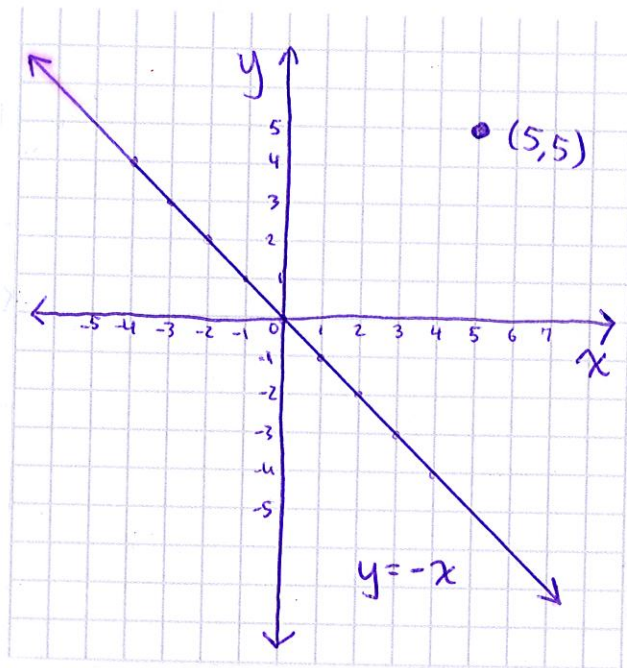
1. $\frac{3}{5} = \frac{u}{260}$ u = 156 lobsters	2. A. 20	3. about 110 ft.										
4. 135 in ²	5. 17.5 ft ³	6. <table border="1"> <thead> <tr> <th>coins</th> <th>Dollars</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4</td> </tr> <tr> <td>2</td> <td>8</td> </tr> <tr> <td>3</td> <td>12</td> </tr> <tr> <td>4</td> <td>16</td> </tr> </tbody> </table> y = 4x it is linear and proportional	coins	Dollars	1	4	2	8	3	12	4	16
coins	Dollars											
1	4											
2	8											
3	12											
4	16											
7. About 113 ft ²	8. a. No, when x is 9, y is 5 b. (15, 9)	9. $3\frac{3}{4}$										
10. 4	11. -6	12. 8										
13. $-24x^5y^4$	14. 5	15. 1										
16. 10^5	17. Rafael is more likely. P(F) = $\frac{31}{73} = 0.413$ P(R) = $\frac{40}{83} = 0.482$	18. C. 18 in.										
19. 6 inches below normal.	20. 20 farmers	21. $\frac{3}{4}c = 12$ c = 16 Pedro has 16 caps.										
22. 2	23. 3400 ft ²	24. a. $\frac{1}{25}$, 0.04 b. $\frac{1}{25}$ b/c its easy to divide 25 by 25										
25. x = 5	26. 100 sec.	27. A = 64 units ² P = 32 units square										
28. \$10	29. (see graph on back) slope = 2	30. Hilbert charges \$10 for the first hat and \$5 for each additional hat. The relationship is NOT proportional so there is no constant of proportionality										

#29



<p>★ 1. 24 goldfinches</p>	<p>2. 17.8 degrees</p>	<p>★ 3. 300 hours.</p>
<p>★ 4. 414 guests</p>	<p>5. a. 7 faces, 15 edges, 10 rectangles b. </p>	<p>★ 6. 704 in³</p>
<p>★ 7. (see graph on back) NO ; slope = -1</p>	<p>8. a. 36π units² b. 1/3 c. 12π units²</p>	<p>9. y = x + 1.5</p>
<p>10. a. isosceles b. 60 m² c. 36m</p>	<p>11. x = 15</p>	<p>12. x = 7/9</p>
<p>13. x = 12, -12</p>	<p>14. x = 6, -6</p>	<p>15. n/2m</p>
<p>16. 0</p>	<p>17. 1</p>	<p>18. 24/25</p>
<p>19. -1 > -4</p>	<p>20. 5 < 5.05</p>	<p>21. a. 0.45, 9/20 b. Fraction because 340 is evenly divisible by 20 9/20 * 40 = 18 (\$18)</p>
<p>22. a. 49π m² b. 14π m</p>	<p>23. a. about 150m² b. about 45m</p>	<p>24. 12</p>
<p>25. c. 7(3+5)</p>	<p>26. He still has \$62</p>	<p>★ 27. 1224 in²</p>
<p>★ 28. Circumference of Venus = 37,994 km Earth is larger.</p>	<p>★ 29. 5h = 6.85 h = 1.37 Lisa is 1.37 meters tall.</p>	<p>★ 30. (see table on back) constant of proportionality is 3/4. She'll need at least 13.5 cups of sauce.</p>

#7



#30

Number (n) of servings	Number of cups of sauce (s)	Ratio $\frac{s}{n}$
4	3	$\frac{3}{4}$
8	6	$\frac{6}{8} = \frac{3}{4}$
12	9	$\frac{9}{12} = \frac{3}{4}$
16	12	$\frac{12}{16} = \frac{3}{4}$
20	15	$\frac{15}{20} = \frac{3}{4}$