ACTIVITY ANSWER KEY

Chapter 5 Section 1

Check your answers from the Answer Key.
Correct all errors, then complete your next goal.



Lesson 1: *Graphs*

Relations

1. related (or kin)
2. connection
3. relation
4. ordered pairs
5. equation
6. dependent
7. independent
8. (a) True
9. (a) True
10. dependent
11. independent
12. ascending
13. Ascending
14. 1, 3
15. 2, 4, 10
16. domain
17. range
18. minimum
19. maximum
20. $0 \leq x \leq 3$
21. minimum
22. maximum
23. $0 \leq y \leq 4$
24. Domain, D: $\{x \mid 0 \leq x \leq 3\}$
Range, R: $\{y \mid 0 \leq y \leq 5\}$
25. Domain, D: $\{x \mid 0 \leq x \leq 5\}$
Range, R: $\{y \mid 0 \leq y \leq 3\}$
26. $-\infty$
27. ∞
28. $-\infty < x < \infty$
29. zero
30. ∞
31. (e) none of these
32. (c) $\{y \mid -\infty < y < \infty\}$
33. Domain, D: $\{x \mid -\infty < x < \infty\}$
Range, R: $\{y \mid -\infty < y < \infty\}$
34. Domain, D: $\{x \mid 1 \leq x \leq 5\}$
Range, R: $\{y \mid 1 \leq y \leq 7\}$
35. *"The reputation of a thousand years may be determined by the conduct of one hour."*



Lesson 2: *Graphs*

Functions

1. Safety, tools
2. wrench
3. hammer
4. functions
5. machine
6. graph
7. (a) True
8. (a) Yes
9. (a) Yes
10. once
11. once
12. Vertical Line Test
13. ellipse
14. two
15. not
16. cannot
17. function
18. abscissas
19. 3, 4
20. None
21. Cartesian
22. one
23. (c) above or below
24. (a) True

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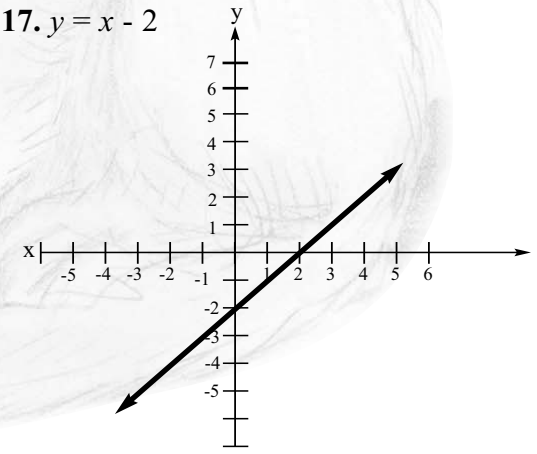
25. equal
26. does not
27. all
28. does not
29. function
30. not a function
31. not a function
32. function
33. not a function
34. not a function
35. *"All glory comes from daring to begin."*

Lesson 3: *Graphs*
More Functions

1. gumball
2. money
3. function
4. number
5. function
6. number
7. number
8. term
9. one
10. n - 1
11. $t_n = n - 1$
12. two
13. $y = x + 5$
14. $0 < x < 10$
15. y
16. ordered pairs
17. $-2 \leq x \leq 5$
18. (a) True
19. substitutes
20. ordered pairs
21. (a) {(-1, 4), (0, 5), (1, 6), (2, 7), (3, 8), (4, 9)}
22. {(-1, -4), (0, -2), (1, 0), (2, 2), (3, 4), (4, 6)}
23. {(-1, 1), (0, 4), (1, 7), (2, 10), (3, 13), (4, 16)}
24. {(-1, -11), (0, -10), (1, -9), (2, -8), (3, -7), (4, -6)}
25. {(-1, -10), (0, -5), (1, 0), (2, 5), (3, 10), (4, 15)}
26. {(-1, 24), (0, 25), (1, 26), (2, 27), (3, 28), (4, 29)}
27. {(-1, -6), (0, -4), (1, -2), (2, 0), (3, 2), (4, 4)}
28. (c) {(-1, -4), (0, 0), (1, 4), (2, 8), (3, 12), (4, 16)}
29. {(-1, -30), (0, 0), (1, 30), (2, 60), (3, 90), (4, 120)}
30. *"When eating fruit, think of the person who planted the tree."*

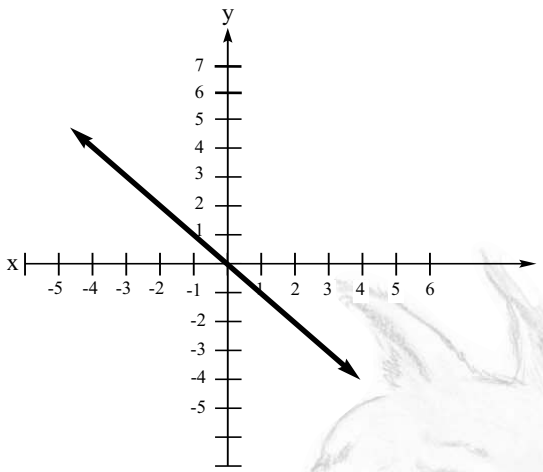
Lesson 4: *Graphs*
Graphing Functions

1. thousand
2. equation
3. plane
4. 0, 1, 2
5. 2, 3, 4
6. ordered pairs
7. graph
8. (c) straight
9. two
10. correctly
11. Vertical Line, correctly
12. function
13. 0, 1, -1
14. ordered pairs
15. connect
16. Vertical Line
17. $y = x - 2$

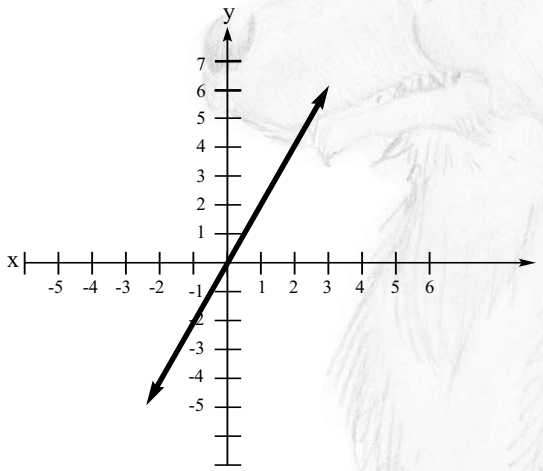


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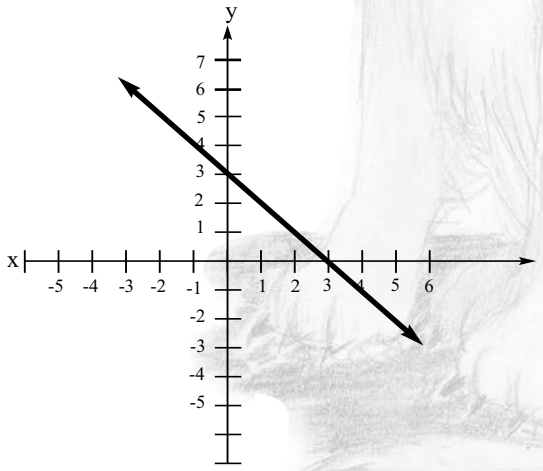
18. $y = -x$



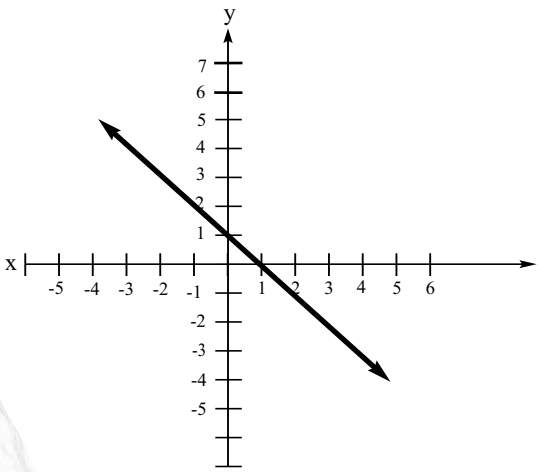
19. $y = 2x$



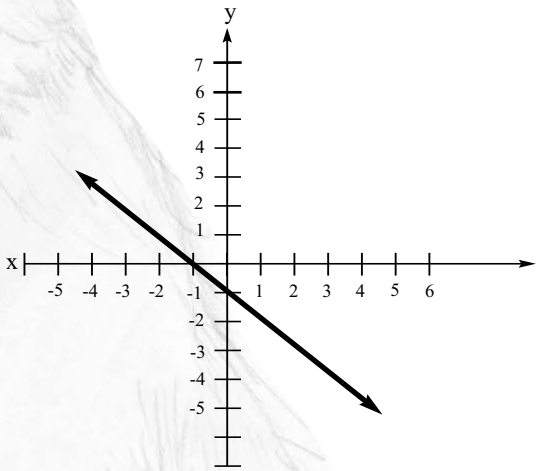
20. $y = -x + 3$



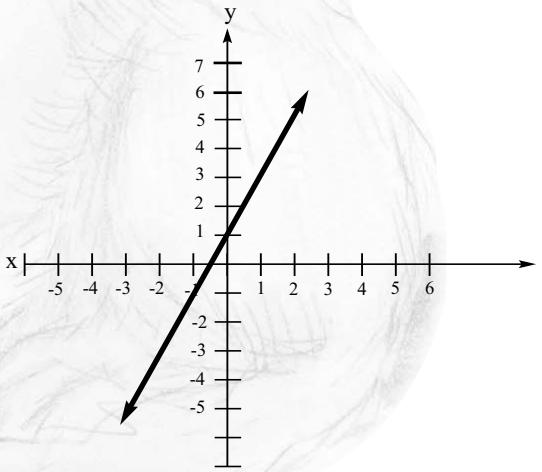
21. $y = -x + 1$



22. $y = -x - 1$

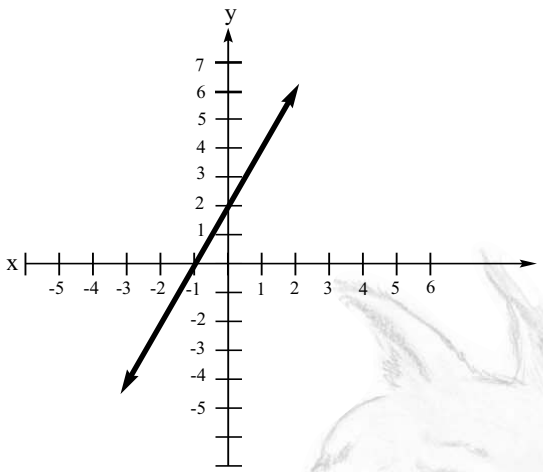


23. $y = 2x + 1$



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24. $y = 2x + 2$



25. *"The best mirror is a friend's eye."*

Lesson 5: *Geometry*
Other Relations

1. three
2. $V = l \times w \times h$
3. ordered triplet
4. two
5. three
6. three
7. 100
8. length, l
9. width, w
10. height, h
11. (2, 2, 25)
12. 4 units
13. dividing
14. 5 units
15. 10 units
16. 200 cubic units.

Answers may vary for #17-18.

17. (5, 10, 10)
18. (1, 2, 58)
19. (d) {(1, 1, 1)}
20. (b) {(2, 1, 1)}
21. (10, 7, 4)
22. $V = 240$ cubic units
23. $V = 9{,}000$ cubic units
24. $V = 1{,}200$ cubic units

25. *"You may find the worst enemy or best friend in yourself."*

Ask for your QUIZ over Section 1.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!

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