

3.5 Puzzle Time

What Did The Pelican Say When It Finished Shopping?

Write the letter of each answer in the box containing the exercise number.

Find the slope of the line passing through the given points.

1. $(-10, -12), (-8, -8), (-6, -4), (-4, 0)$
2. $(-4, 2), (0, 1), (4, 0), (8, -1)$
3. $(-7, -7), (0, -8), (7, -9), (14, -10)$
4. $(-2, 2), (0, 3), (2, 4), (4, 5)$
5. $(2, -11), (4, -25), (6, -39), (8, -53)$
6. $(-11, -38), (-5, -14), (1, 10), (7, 34)$

Find the slope and the y-intercept of the graph of the linear equation.

7. $y = -4x + 6$
8. $y = -\frac{1}{4}$
9. $4x + y = -1$
10. $y = 6x - 4$
11. $-x - 4y + 8 = 0$
12. $2x - 12y + 10 = 0$
13. The local service center advertises that it charges a flat fee of \$50 plus \$8 per mile to tow a vehicle. The function $C(x) = 8x + 50$ represents the cost C (in dollars) of towing a vehicle, where x is the number of miles the vehicle is towed. Identify the slope and y-intercept.

Answers

- I. $m = \frac{1}{2}$
- M. $m = 6, b = -4$
- U. $m = -\frac{1}{4}$
- N. $m = -4, b = -1$
- P. $m = -4, b = 6$
- I. $m = -7$
- L. $m = -\frac{1}{4}, b = 2$
- O. $m = 2$
- L. $m = 4$
- T. $m = 0, b = -\frac{1}{4}$
- B. $m = 8, b = 50$
- Y. $m = -\frac{1}{7}$
- T. $m = \frac{1}{6}, b = \frac{5}{6}$

7	2	12		5	8		1	9		10	3		13	4	11	6
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