5 CHAPTER REVIEW

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- Multi-Language Glossary
- Vocabulary practice

REVIEW KEY VOCABULARY

- point-slope form, *p. 302*
- converse, *p. 319*
- perpendicular, *p. 320*
- scatter plot, *p. 325*
- positive correlation, negative correlation, relatively no correlation, *p. 325*
- line of fit, *p. 326*
- best-fitting line, *p. 335*
- linear regression, *p. 335*
- interpolation, *p. 335*
- extrapolation, *p. 336*
- zero of a function, *p. 337*

VOCABULARY EXERCISES

1. Copy and complete: If a best-fitting line falls from left to right, then the data have a(n) __?__ correlation.

2. Copy and complete: Using a linear function to approximate a value beyond a range of known values is called __?__.

3. **WRITING** What is the zero of a function, and how does it relate to the function's graph? *Explain*.

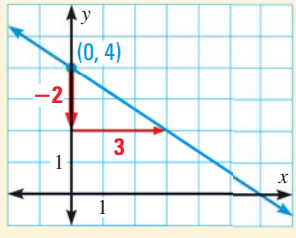
REVIEW EXAMPLES AND EXERCISES

Use the review examples and exercises below to check your understanding of the concepts you have learned in each lesson of Chapter 5.

5.1 Write Linear Equations in Slope-Intercept Form *pp. 283–289*

EXAMPLE

Write an equation of the line shown.



$y = mx + b$ **Write slope-intercept form.**

$y = -\frac{2}{3}x + 4$ **Substitute $-\frac{2}{3}$ for m and 4 for b.**

EXERCISES

EXAMPLES 1 and 5 on pp. 283, 285 for Exs. 4–7

Write an equation in slope-intercept form of the line with the given slope and y-intercept.

4. slope: 3
   y-intercept: -10

5. slope: $\frac{4}{9}$
   y-intercept: 5

6. slope: $-\frac{2}{11}$
   y-intercept: 7

7. **GIFT CARD** You have a $25 gift card for a bagel shop. A bagel costs $1.25. Write an equation that gives the amount (in dollars) that remains on the card as a function of the total number of bagels you have purchased so far. How much money is on the card after you buy 2 bagels?