

## Practice 3-7

### Slopes of Parallel and Perpendicular Lines

Are the lines parallel, perpendicular, or neither? Explain.

1.  $y = 3x - 2$

$y = \frac{1}{3}x + 2$

5.  $y = 2$

$x = 0$

2.  $y = \frac{1}{2}x + 1$

$-4y = 8x + 3$

6.  $3x + 6y = 30$

$4y + 2x = 9$

3.  $\frac{2}{3}x + y = 4$

$y = -\frac{2}{3}x + 8$

7.  $y = x$

$8y - x = 8$

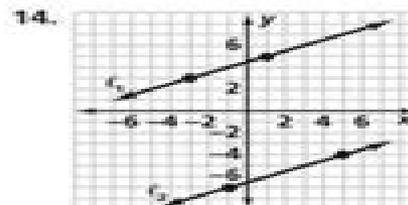
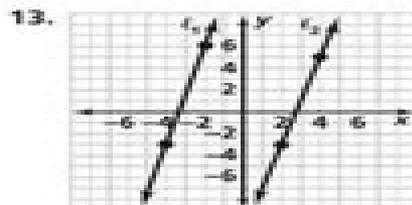
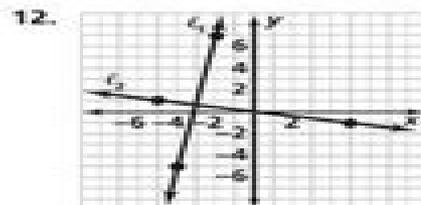
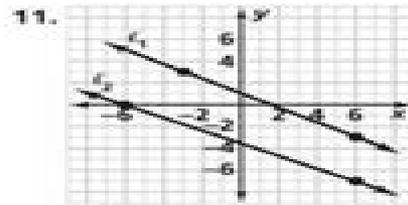
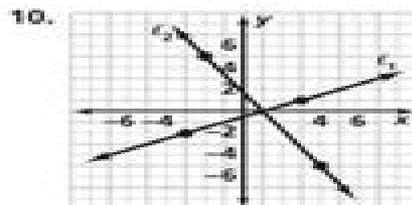
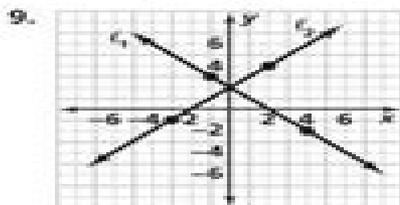
4.  $-x - y = -1$

$y + x = 7$

8.  $\frac{1}{3}x + \frac{1}{2}y = 1$

$\frac{3}{4}y + \frac{1}{2}x = 1$

Are lines  $l_1$  and  $l_2$  parallel, perpendicular, or neither? Explain.



Write an equation for the line perpendicular to  $\overline{XY}$  that contains point  $Z$ .

15.  $\overline{XY}: 3x + 2y = -6, Z(3, 2)$

16.  $\overline{XY}: y = \frac{3}{4}x + 22, Z(12, 8)$

17.  $\overline{XY}: -x + y = 0, Z(-2, -1)$

Write an equation for the line parallel to  $\overline{XY}$  that contains point  $Z$ .

18.  $\overline{XY}: 6x - 10y + 5 = 0, Z(-5, 3)$

19.  $\overline{XY}: y = -1, Z(0, 0)$

20.  $\overline{XY}: x = \frac{1}{2}y + 1, Z(1, -2)$

21. **Aviation** Two planes are flying side by side at the same altitude. It is important that their paths do not intersect. One plane is flying along the path given by the line  $4x - 2y = 10$ . What is the slope-intercept form of the line that must be the path of another plane passing through the point  $L(-1, -2)$  so that the planes do not collide? Graph the paths of the two planes.

# Holt Geometry Lesson 3 3 Answers

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### **Table of Contents Holt Geometry Lesson 3 3 Answers**

1. Understanding the eBook Holt Geometry Lesson 3 3 Answers
  - The Rise of Digital Reading Holt Geometry Lesson 3 3 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Geometry Lesson 3 3 Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Holt Geometry Lesson 3 3 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Geometry Lesson 3 3 Answers
  - Personalized Recommendations
  - Holt Geometry Lesson 3 3 Answers User Reviews and Ratings
  - Holt Geometry Lesson 3 3 Answers and Bestseller Lists
5. Accessing Holt Geometry Lesson 3 3 Answers Free and Paid eBooks
  - Holt Geometry Lesson 3 3 Answers Public Domain eBooks
  - Holt Geometry Lesson 3 3 Answers eBook Subscription Services

- Holt Geometry Lesson 3 3 Answers Budget-Friendly Options
- 6. Navigating Holt Geometry Lesson 3 3 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Holt Geometry Lesson 3 3 Answers Compatibility with Devices
  - Holt Geometry Lesson 3 3 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Holt Geometry Lesson 3 3 Answers
  - Highlighting and Note-Taking Holt Geometry Lesson 3 3 Answers
  - Interactive Elements Holt Geometry Lesson 3 3 Answers
- 8. Staying Engaged with Holt Geometry Lesson 3 3 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Holt Geometry Lesson 3 3 Answers
- 9. Balancing eBooks and Physical Books Holt Geometry Lesson 3 3 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Holt Geometry Lesson 3 3 Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Geometry Lesson 3 3 Answers
  - Setting Reading Goals Holt Geometry Lesson 3 3 Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Geometry Lesson 3 3 Answers
  - Fact-Checking eBook Content of Holt Geometry Lesson 3 3 Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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