

10. A line with a slope of  $\frac{1}{2}$  passes through the points  $(3, 2k)$  and  $(7, 4)$ . Find the value of  $k$ .

$$m = \frac{4 - 2k}{7 - 3} = \frac{1}{2}$$

$$\frac{4 - 2k}{4} = \frac{1}{2}$$

$$8 - 4k = 4$$

$$k = 1$$

11. Given the two marked lines in the diagram are parallel, calculate the value of  $x$ ,  $y$ , and  $z$ .

$$5x + 3 + 7x + 33 = 180$$

$$12x + 36 = 180$$

$$12x = 144$$

$$x = 12$$

$$4z = 117$$

$$z = \frac{117}{4}$$

$$2y - 5 = 63$$

$$y = 34$$



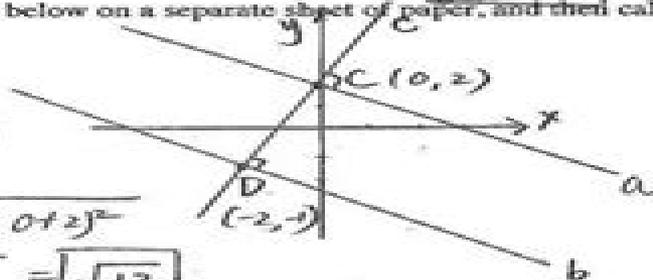
12. Graph the lines below on a separate sheet of paper, and then calculate the shortest distance between the lines.

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

$$2x + 3y = -7$$

$$CD = \sqrt{(2+1)^2 + (0+2)^2}$$

$$= \sqrt{9+4} = \sqrt{13}$$



Equation for C:  $y = \frac{3}{2}x + 2$   
 Point D is the intersection of  
 line b and line c

$$\begin{cases} y = \frac{3}{2}x + 2 \\ y = -\frac{2}{3}x - \frac{7}{3} \end{cases} \quad D(-2, -1)$$

$$\frac{3}{2}x + 2 = -\frac{2}{3}x - \frac{7}{3}$$

$$x = -2 \quad y = -1$$

13. Given that  $\overline{QO} \parallel \overline{MU}$  and  $\overline{TR}$  bisects  $\angle MTS$ , which means  $\angle MTR = \angle STR$ . Explain how you can tell that  $\angle NPO = \angle STR$  by rearranging the steps below, and giving reasons for each step.

a.  $\angle NPO = \angle STR$

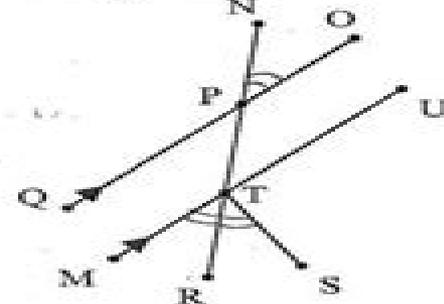
b.  $\angle NPO = \angle MTR$

c.  $\angle STR = \angle MTR$

$\angle NPO \cong \angle MTR$  alt. ext.  $\angle$ 's

$\angle STR \cong \angle MTR$  angle bisector (given)

$\angle NPO \cong \angle STR$  transitive



# Practice 8 1 Answer Key Geometry

**Marcel A. Müller**



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## **Table of Contents Practice 8 1 Answer Key Geometry**

1. Understanding the eBook Practice 8 1 Answer Key Geometry
  - The Rise of Digital Reading Practice 8 1 Answer Key Geometry
  - Advantages of eBooks Over Traditional Books
2. Identifying Practice 8 1 Answer Key Geometry
  - 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 Practice 8 1 Answer Key Geometry
  - User-Friendly Interface
4. Exploring eBook Recommendations from Practice 8 1 Answer Key Geometry
  - Personalized Recommendations
  - Practice 8 1 Answer Key Geometry User Reviews and Ratings
  - Practice 8 1 Answer Key Geometry and Bestseller Lists
5. Accessing Practice 8 1 Answer Key Geometry Free and Paid eBooks
  - Practice 8 1 Answer Key Geometry Public Domain eBooks
  - Practice 8 1 Answer Key Geometry eBook Subscription Services
  - Practice 8 1 Answer Key Geometry Budget-Friendly Options

6. Navigating Practice 8 1 Answer Key Geometry eBook Formats
  - ePub, PDF, MOBI, and More
  - Practice 8 1 Answer Key Geometry Compatibility with Devices
  - Practice 8 1 Answer Key Geometry Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Practice 8 1 Answer Key Geometry
  - Highlighting and Note-Taking Practice 8 1 Answer Key Geometry
  - Interactive Elements Practice 8 1 Answer Key Geometry
8. Staying Engaged with Practice 8 1 Answer Key Geometry
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Practice 8 1 Answer Key Geometry
9. Balancing eBooks and Physical Books Practice 8 1 Answer Key Geometry
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Practice 8 1 Answer Key Geometry
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Practice 8 1 Answer Key Geometry
  - Setting Reading Goals Practice 8 1 Answer Key Geometry
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Practice 8 1 Answer Key Geometry
  - Fact-Checking eBook Content of Practice 8 1 Answer Key Geometry
  - 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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