

Finding Slope

Name: _____ Date: _____ Score: _____ / 18

Quick Review and Helpful Hints

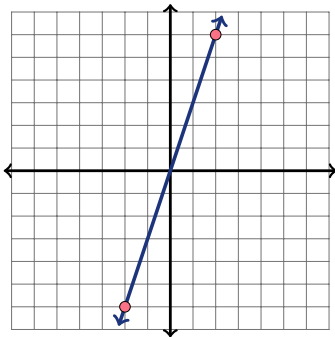
Slope measures steepness: $m = \frac{y_2 - y_1}{x_2 - x_1}$, or rise over run. Keep the subtraction order the same for y and x . Positive slopes rise, negative slopes fall, horizontal lines have slope 0, and vertical lines have undefined slope.

▶ **Example:** Find the slope of the line through (1, 2) and (4, 8). **Work:** Use the formula: $m = \frac{8-2}{4-1} = \frac{6}{3}$. Simplify the fraction. ★ **Answer:** $m = 2$

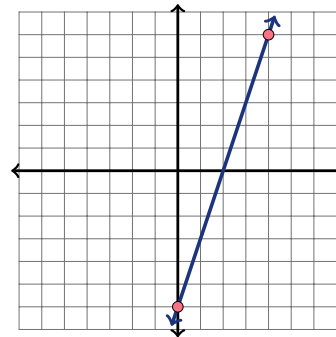
◆ **Practice Problems**

Find the slope. For graph questions, count rise over run; for point-pair questions, use the slope formula.

1. Use the graph to find the slope of the line.



2. Use the graph to find the slope of the line.



3. (2, 5) and (6, 5) _____

9. (3, 1) and (6, 7) _____

4. (0, 1) and (4, 9) _____

10. (1, 1) and (5, 3) _____

5. (1, 4) and (3, 0) _____

11. (-2, -3) and (2, 5) _____

6. (2, 3) and (5, 12) _____

12. (4, 2) and (4, 9) _____

7. (-1, 2) and (1, 6) _____

13. (0, 5) and (3, 5) _____

8. (0, 7) and (2, 1) _____

14. (2, 1) and (8, 5) _____

◆ **Word Problems**

15. A ramp rises 3 feet over a horizontal run of 12 feet. What is its slope? _____

17. A staircase rises 8 inches for every 10 inches forward. What is its slope? _____

16. A line passes through (2, 3) and (5, 12). Find its slope. _____

18. A road drops 50 feet over 200 horizontal feet. What is its slope? _____



Answer Keys

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

17.

18.

Step-by-Step Explanations

1. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Graph: rise 6, run 2, so $m = 3$. So the final answer is 3.

2. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Graph: rise 6, run 2, so $m = 3$. So the final answer is 3.

3. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Matching y -values give rise 0: $m = \frac{0}{4} = 0$. So the final answer is 0.

4. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $m = \frac{0-1}{4-0} = \frac{-1}{4} = -\frac{1}{4}$. So the final answer is $-\frac{1}{4}$.

5. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $m = \frac{0-4}{3-1} = \frac{-4}{2} = -2$. So the final answer is -2 .

6. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $m = \frac{12-3}{5-2} = \frac{9}{3} = 3$. So the final answer is 3.

7. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $m = \frac{6-2}{1-(-1)} = \frac{4}{2} = 2$. So the final answer is 2.

8. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $m = \frac{1-7}{2-0} = \frac{-6}{2} = -3$. So the final answer is -3 .

9. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $m = \frac{7-1}{6-3} = \frac{6}{3} = 2$. So the final answer is 2.

10. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $m = \frac{3-1}{5-1} = \frac{2}{4} = \frac{1}{2}$. So the final answer is $\frac{1}{2}$.

11. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $m = \frac{5-(-3)}{2-(-2)} = \frac{8}{4} = 2$. So the final answer is 2.

12. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is The x -values match, so the run is 0 and the slope is undefined. So the final answer is undefined.

13. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Matching y -values give rise 0, so the slope is 0. So the final answer is 0.

14. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $m = \frac{5-1}{8-2} = \frac{4}{6} = \frac{2}{3}$. So the final answer is $\frac{2}{3}$.

15. Step by step: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Slope $= \frac{3}{12} = \frac{1}{4}$. So the final answer is $\frac{1}{4}$.

16. Take it one move at a time: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is $m = \frac{12-3}{5-2} = \frac{9}{3} = 3$. So the final answer is 3.

17. Start by naming the process: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is Slope $= \frac{8}{10} = \frac{4}{5}$. So the final answer is $\frac{4}{5}$.

18. A good way to think about this is: Read what the problem is asking, choose the matching rule, write the setup, and then simplify one step at a time. The setup/work is The road drops, so rise is negative: $m = \frac{-50}{200} = -\frac{1}{4}$. So the final answer is $-\frac{1}{4}$.



Want Even More GED Math Practice?



The Most Comprehensive GED Math Preparation Bundle

Prep books, workbooks, and full-length practice tests
Complete review, detailed explanations, and realistic test practice



Scan Me

Prep Books
Workbooks
Practice Tests

Important: These GED Math resources are made for extra practice after the worksheet. Scan the QR code above for the complete GED Math preparation bundle.

Skill Review

- ✓ Builds number sense, algebra, geometry, and data skills
- ✓ Supports steady review before the GED test
- ✓ Great for tutoring, homework, and independent practice

Build the foundation.

Test Practice

- ✓ Full-length practice tests for realistic pacing
- ✓ Detailed answer explanations for every question
- ✓ Useful after students finish topic worksheets

Practice with purpose.

Confidence

- ✓ Turns mistakes into targeted review
- ✓ Helps students see progress over time
- ✓ Keeps GED preparation organized and calm

Move forward prepared.

STUDENT FAVORITE • Master GED Math From the Ground Up



GED Math for Beginners

The Ultimate Step-by-Step Guide to Preparing for the GED Math Test

Written by a top math teacher and aligned with the latest GED Math test. From fractions and percents to algebra and geometry — explained the easy way.

- ✓ **Complete coverage** of every GED Math topic — perfect companion to these worksheets
- ✓ **Step-by-step explanations** with worked examples on every topic
- ✓ **QR codes in every chapter** for free video lessons & bonus practice
- ✓ **2 full-length practice tests** with detailed answer keys
- ✓ Perfect for self-study or the classroom

* **STUDENT'S #1 CHOICE**

Teacher-recommended • trusted GED prep

→ PDF EDITION



Scan Me

Instant download • any device

PAPERBACK



Scan Me

Paperback on Amazon

Pair these free worksheets with *GED Math for Beginners* and you have a complete self-paced GED Math path — concept lessons, daily practice, and full exam-style reviews. → [EffortlessMath.com](https://www.EffortlessMath.com)