



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Find the slope through two points.
- ✓ Find x- and y-intercepts.
- ✓ Use slope-intercept form $y = mx + b$.
- ✓ Interpret the sign of the slope.



Section A • Concept Check

• BEGINNER

$4 \times 1 = 4$

1 Slope through (2,3) and (5,12):

- ☐ A. 3 ☐ B. -3 ☐ C. 1/3 ☐ D. 9

3 The y-intercept of $y = 5x - 10$ is:

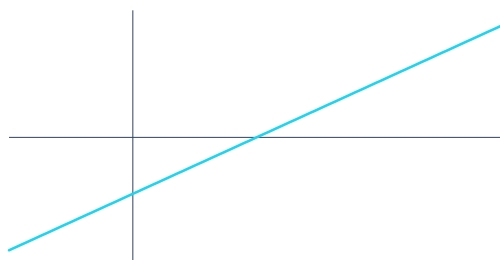
- ☐ A. 5 ☐ B. -10 ☐ C. 10 ☐ D. 2

2 Slope through (1,7) and (4,1):

- ☐ A. -2 ☐ B. 2 ☐ C. -6 ☐ D. 6

4 The x-intercept of $y = 2x - 8$ is:

- ☐ A. 4 ☐ B. -8 ☐ C. 8 ☐ D. 2

 $y = 2x - 4$: slope 2, y-intercept -4

Section B • Problem Solving

• INTERMEDIATE

$2 + 3 \times 3 = 11$

5 Slope = $(y_2 - y_1) /$ _____.6 In $y = mx + b$, b is the _____-intercept.

7 Find the slope through (2,3) and (5,12).

8 Find the slope through (1,7) and (4,1).

9 Find the y-intercept of $y = 5x - 10$.



Section C • Challenge

• CHALLENGE

5

10 Find the x-intercept of $y = 2x - 8$.

Reflection — the most useful thing I learned: _____

A ___/4 B ___/11 C ___/5 Total ___/20

Teacher's Signature

Parent's Signature

1-A 2-A 3-B 4-A | 5 $(x_2 - x_1)$ 6 y 7 = 3 8 = -2 9 = -10 | 10 = 4

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