Writing equations of parallel lines worksheet pdf free online

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a. What is the slope of the line containing $\overline{BC}$? Briefly explain how you got your answer.

$$m = -\tfrac{1}{2}x$$

When lines are parallel their slopes are the same, $\overline{AD}$'s slope was $-\tfrac{1}{2}x$ and $\overline{BC} \parallel \overline{AD}$ they have the same slope of $-\tfrac{1}{2}x$

b. Write an equation in **slope-intercept form** of the line that contains $\overline{BC}$ if B is located at $(-2, 7)$. Show your work to justify your answer.

$$(y - 7) = -\tfrac{1}{2}(x + 2)$$

$$y - 7 = -\tfrac{1}{2}x - 1$$
$$\quad\quad + 7 \quad\quad + 7$$

$$\boxed{y = -\tfrac{1}{2}x + 6}$$

$$-\tfrac{1}{2} \times \tfrac{2}{1} \quad \tfrac{-2}{2} = \ominus 1$$

$$-\tfrac{1}{2} \times \tfrac{4}{}$$

$-2 = $ y intercept
$b = $ y intercept

2. In rectangle $EFGH$, $\overline{EH} \perp \overline{FG}$ and $\overline{EH}$ crosses the y-axis at $(0, -2)$. If the equation of the line containing $\overline{FG}$ is $x + 3y = 12$, write the equation of the line containing $\overline{EH}$ in **slope-intercept form**. Show your work to justify your answer.

$$x + 3y = 12$$
$$-x \quad\quad -x$$

$$\frac{3y = -x + 12}{3 \quad\quad \div 3}$$

$$y = \left(-\tfrac{1}{3}x\right) + 4$$
$$\qquad\quad\downarrow$$
$$\qquad\quad m$$

$$(y + 2) = -\tfrac{1}{3}(x) \;\checkmark$$
$$y + 2 = -\tfrac{1}{3}x$$
$$\quad -2 \quad\quad -2$$
$$y = -\tfrac{1}{3}x - 2$$

Lesson 6.1b – Writing Equations of Parallel and Perpendicular Lines

Introduction

- _____ lines are lines which _____ _____ or _____.
- _____ lines are lines which meet or intersect and create a _____ _____ aka a right angle.
- We can find the equation of two lines which are parallel or perpendicular and prove whether the lines are parallel or perpendicular.

Parallel Lines

- Lines which are parallel always have the _____ _____ or value for m, but a _____ y-intercept or value for b.
  - Ex. $f(x) = 2x + 5$ and $f(x) = 2x - 11$ are parallel lines because they have the same slope but different y-intercepts.

Ex. 1

Two lines, l_1 and l_2, are linear equation. Line l_1 has the equation $y = \tfrac{1}{4}x + 4$. Line l_2 has the equation $y = \tfrac{1}{4}x - 2$. Are they parallel? _____.
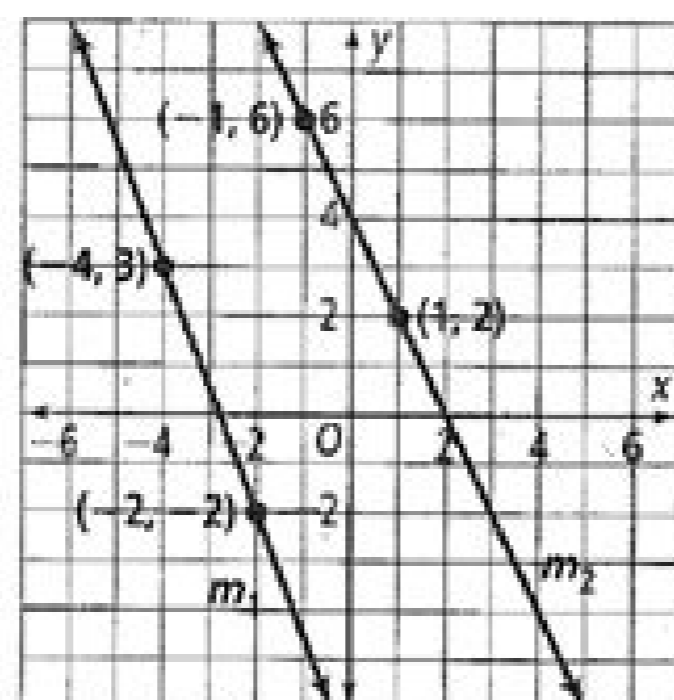
Ex. 2

The two lines in the graph to the right, m_1 and m_2, are shown. Are they parallel?

m_1 slope: _____

m_2 slope: _____

Are they parallel? _____

Vertical angles

Complementary angles

Supplementary angles

Alternate interior angles

Alternate exterior angles

Corresponding angles

Alternate interior angles

Supplementary angles

Alternate Exterior Angles

Answers for the lesson "Write Linear Equations in Slope-Intercept Form"

Skill Practice

1. slope
2. You can substitute the slope for m and the y-intercept for b to get the equation of the line.
3. $y = 2x + 9$
4. $y = x + 5$
5. $y = -3x$
6. $y = -7x + 1$
7. $y = \frac{2}{3}x - 9$
8. $y = \frac{3}{4}x - 6$
9. A
10. $y = x - 4$
11. $y = -\frac{1}{2}x$
12. $y = -3x + 4$
13. $y = \frac{2}{3}x - 8$
14. $y = -x - 3$
15. $y = -2x - 2$
16. The given slope and y-intercept were interchanged in the slope-intercept form of the equation; $y = 2x + 7$.
17. The slope should be $\frac{0-4}{5-0}$; $y = -\frac{4}{5}x + 4$
18. $y = \frac{1}{3}x + 2$
19. $y = 4x + 4$
20. $y = -\frac{1}{4}x + 3$
21. $y = -\frac{4}{3}x$
22. $y = x - 4$
23. $y = 2x - 2$

24. $y = -3x - 8$
25. $y = -x - 5$
26. $y = -4$
27. $y = -0.0625x + 4$
28. $y = -\frac{8}{3}x + 5$
29. $y = -4x - 24$
30. $y = x + 2$
31. $y = -2x + 7$
32. $y = -\frac{1}{4}x - 2$
33. $y = -\frac{4}{3}x - 1$
34. $y = -5x - 4$
35. $y = \frac{2}{3}x + 3$
36. $y = -3x + 21$
37. $y = -3x + 9$
38. $y = 2x + 0.6$
39. The equations in slope-intercept form of the two lines are k: $y = 2x - 1$ and l: $y = -\frac{1}{5}x + 1$. The parameter m changed from 2 to $-\frac{1}{5}$ and the parameter b changed from -1 to 1.
40. *Sample answer:* A health club offers an aerobics membership that charges $9 plus $4 per class.
41. $y = -2x + 1$

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