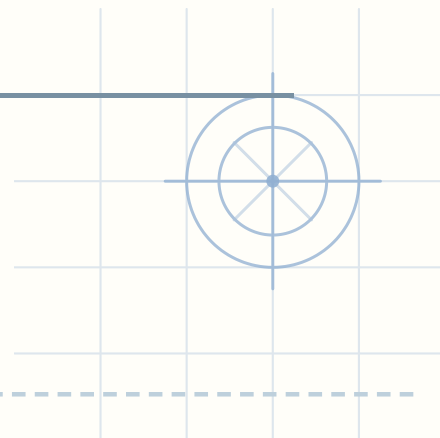


Write the equation of a line — From points or a slope

Name: _____

Date: _____

Write the equation of each line as $y = mx + b$.



1 with slope 1 through $(-2, 2)$ $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$

2 through $(1, 4)$ and $(2, 3)$ $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$

3 with slope -3 through $(2, -7)$ $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$

4 with slope 4 through $(3, 13)$ $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$

5 through $(-1, -2)$ and $(2, 4)$ $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$

6 with slope 3 through $(-1, 5)$ $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$

7 with slope 4 through $(-1, -12)$ $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$

8 through $(2, 10)$ and $(4, 12)$ $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$

9 through $(-2, 3)$ and $(1, -3)$ $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$

10 through $(-3, -2)$ and $(-1, -6)$ $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$



Write the equation of a line · From points or a slope — Answer key

1. with slope 1 through $(-2, 2) \rightarrow y = x + 4$

2. through $(1, 4)$ and $(2, 3) \rightarrow y = -x + 5$

3. with slope -3 through $(2, -7) \rightarrow y = -3x - 1$

4. with slope 4 through $(3, 13) \rightarrow y = 4x + 1$

5. through $(-1, -2)$ and $(2, 4) \rightarrow y = 2x$

6. with slope 3 through $(-1, 5) \rightarrow y = 3x + 8$

7. with slope 4 through $(-1, -12) \rightarrow y = 4x - 8$

8. through $(2, 10)$ and $(4, 12) \rightarrow y = x + 8$

9. through $(-2, 3)$ and $(1, -3) \rightarrow y = -2x - 1$

10. through $(-3, -2)$ and $(-1, -6) \rightarrow y = -2x - 8$

