

2022 The Secret of Algebra I Chapter 3 Graphing Linear Functions

Lesson 003 | Algebra I | Lines and slopes

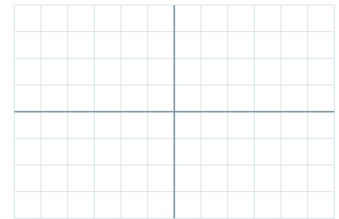
<https://www.youtube.com/watch?v=QqzCuWeTc3k>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

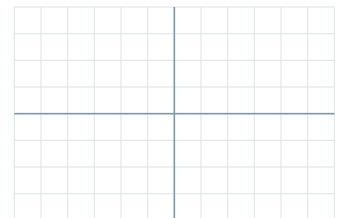
Write point-slope and slope-intercept equations of the line through $(-5, 7)$ with slope 10. Sketch it.

**02**

Find the slope through $(-3, 6)$ and $(-1, 22)$. Write the line equation.

03

Write point-slope and slope-intercept equations of the line through $(-2, 14)$ with slope 7. Sketch it.



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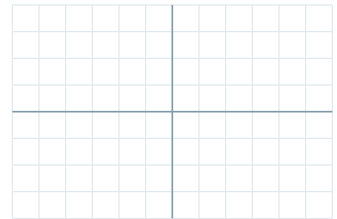
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04

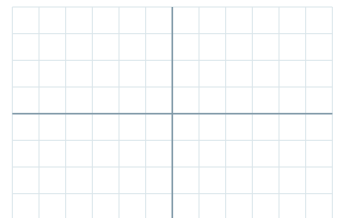
Write point-slope and slope-intercept equations of the line through $(-9, 13)$ with slope 9. Sketch it.

**05**

Find the slope through $(-4, 7)$ and $(2, 43)$. Write the line equation.

06

Write point-slope and slope-intercept equations of the line through $(-5, 8)$ with slope 13. Sketch it.



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01

Write point-slope and slope-intercept equations of the line through $(-5, 7)$ with slope 10. Sketch it.

$$y - 7 = 10(x - -5); y = 10x + (57). \text{ Plot } (-5, 7) \text{ and } (-4, 17).$$

02

Find the slope through $(-3, 6)$ and $(-1, 22)$. Write the line equation.

$$m = (22 - 6)/(-1 - -3) = 8. \text{ Thus } y - 6 = 8(x - -3).$$

03

Write point-slope and slope-intercept equations of the line through $(-2, 14)$ with slope 7. Sketch it.

$$y - 14 = 7(x - -2); y = 7x + (28). \text{ Plot } (-2, 14) \text{ and } (-1, 21).$$

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04

Write point-slope and slope-intercept equations of the line through $(-9, 13)$ with slope 9. Sketch it.

$y - 13 = 9(x - -9)$; $y = 9x + (94)$. Plot $(-9, 13)$ and $(-8, 22)$.

05

Find the slope through $(-4, 7)$ and $(2, 43)$. Write the line equation.

$m = (43 - 7)/(2 - -4) = 6$. Thus $y - 7 = 6(x - -4)$.

06

Write point-slope and slope-intercept equations of the line through $(-5, 8)$ with slope 13. Sketch it.

$y - 8 = 13(x - -5)$; $y = 13x + (73)$. Plot $(-5, 8)$ and $(-4, 21)$.