

Algebra 1

Topic: Graphing Linear Equations in Slope-Intercept Form

Instructions

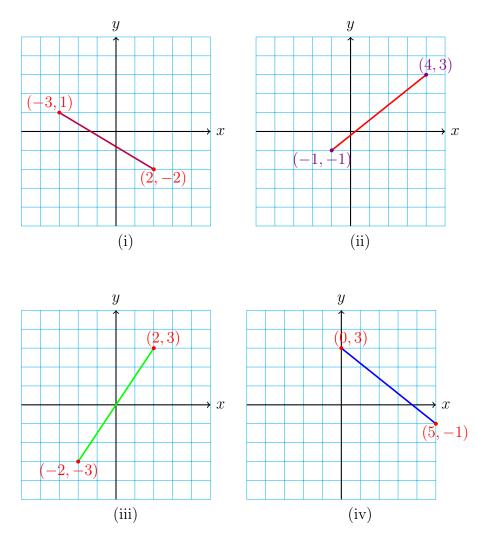
Solve the following problems. Use graphs where necessary. Show all work clearly.

Practice Problems

1. Find the slope and the y-intercept of the graph of the linear equation.

(i) $y = -2x + 5$	(v) $-x + 2y = 6$
(ii) $y = 3x - 7$	(vi) $3x + y = -9$
(iii) $y = 4x$	(vii) $0 = 2 - y + 5x$
(iv) $y = -5$	(viii) $2x - 4y = 8$

- 2. Graph the following linear equations:
 - i. y = 2x + 3ii. $y = -\frac{1}{2}x + 1$ iii. y = 3x - 4iv. y = -x + 2v. $y = \frac{1}{3}x - 1$ vi. $y = -\frac{3}{4}x + 5$
- 3. Describe the slope of the line. Then find the slope.



4. The points represented by the table lie on a line. Find the slope of the line.

X	-9	-5	-1	3
Y	-2	0	2	4

X	-1	2	5	8
Y	-6	-6	-6	-6

X	0	0	0	0
Y	-4	0	4	8

Multiple Choice Questions

1. What is the slope of the equation $y = -\frac{2}{3}x + 5$?

a.
$$-\frac{2}{3}$$

b. $\frac{3}{2}$ c. -5d. $\frac{5}{2}$

2. What is the y-intercept of the line y = 4x - 6?

a. 4
b. -4
c. -6
d. 6

3. What is the y-intercept of the line y = 4x - 7?

- a. 4
 b. -4
 c. -7
 d. 7
- 4. A line passes through (2, 4) and (4, 10). What is the equation of the line in slope-intercept form?
 - a. y = 3x 2b. y = 3x + 4c. y = 2x - 2d. y = 2x + 4

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