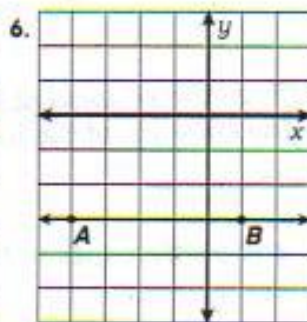
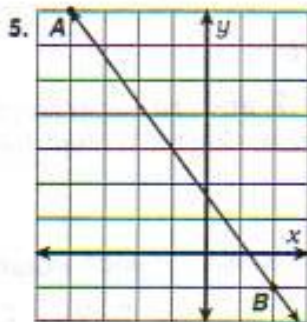
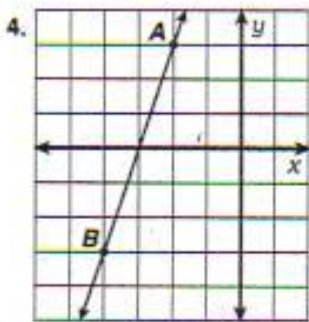
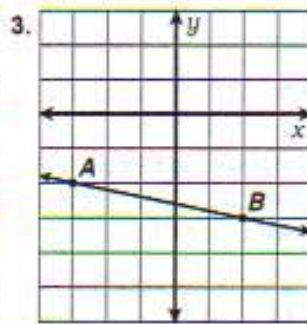
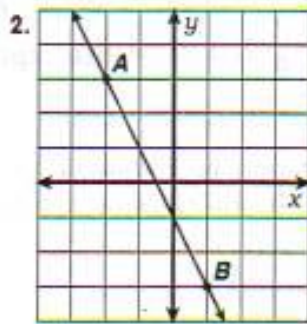
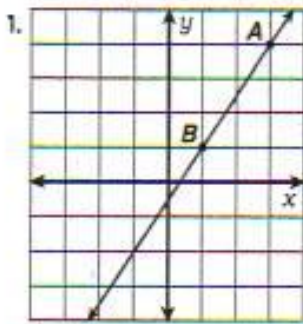


What Is Used To Repair Big, Brass Band Instruments?

Cross out the letter pair next to each correct answer. For each letter pair that you DONT cross out, write the upper case letter in the box containing the lower case letter.

In Exercises 1-6, find the slope of \overleftrightarrow{AB} .



answers 1-6

i • O $-\frac{4}{3}$

e • U $-\frac{2}{3}$

g • R $\frac{3}{2}$

a • T 3

b • A $-\frac{3}{5}$

j • V -2

d • L 0

l • E $\frac{7}{2}$

h • N $-\frac{1}{5}$

In Exercises 7-18, find the slope of the line that passes through the two given points.

7. (5, 1); (8, 3)

8. (6, 3); (1, 4)

f • P 1

k • U $-\frac{7}{4}$

answers 7-12

a • S $-\frac{1}{5}$

9. (2, -2); (5, 7)

10. (1, -6); (9, -8)

c • N 3

d • B $-\frac{8}{3}$

g • A 2

11. (-3, 7); (-10, 0)

12. (-9, 4); (-6, -4)

i • G $\frac{2}{5}$

h • N $\frac{2}{3}$

m • E $-\frac{1}{4}$

13. (0, -3); (-2, 7)

14. (2, 8); (0, 3)

j • L -3

h • R -5

d • T $\frac{5}{7}$

15. (-6, 4); (6, -5)

16. (-5, -9); (-1, -1)

f • N $\frac{4}{9}$

f • B $-\frac{2}{5}$

c • T $\frac{5}{2}$

17. (-2, 11); (7, 15)

18. (-5, 6); (0, 0)

d • S $-\frac{3}{4}$

m • D $-\frac{6}{5}$

j • O 2

answers 13-18

a	b	c	d	e	f	g	h	i	j	k	l	m
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Study Guide

Writing Linear Equations in Slope-Intercept Form

The x -coordinate of the point where a line crosses the x -axis is called the **x -intercept**. Similarly, the y -coordinate of the point where the line crosses the y -axis is called the **y -intercept**.

Slope-Intercept Form of a Linear Equation

Given the slope m and the y -intercept b of a line, the slope-intercept form of an equation of the line is

$$y = mx + b.$$

If an equation is given in standard form $Ax + By = C$ and B is not zero, the slope of the line is $-\frac{A}{B}$ and the y -intercept is $\frac{C}{B}$. The x -intercept is $\frac{C}{A}$ where $A \neq 0$.

Example: Find the x - and y -intercepts of the graph of $5x - 2y = 10$. Then write the equation in slope-intercept form.

Since $A = 5$, $B = -2$, and $C = 10$,

$$\begin{aligned} \frac{C}{A} &= \frac{10}{5} & \frac{C}{B} &= \frac{10}{-2} & m &= -\frac{A}{B} \\ &= 2 & &= -5 & &= \frac{5}{2} \end{aligned}$$

Thus, the x -intercept is 2, and the y -intercept is -5 . The equation of the line in slope-intercept form is

$$y = \frac{5}{2}x - 5.$$

Find the x - and y -intercepts of the graph of each equation.

1. $5x + 4y = 20$

2. $2x - 5y = -7$

3. $4x - 8y = 10$

4. $9x + y = -1$

Write an equation in slope-intercept form of a line with the given slope and y -intercept. Then write the equation in standard form.

5. $m = 6, b = 10$

6. $m = 4, b = 0$

7. $m = -1, b = 3$

8. $m = 2, b = -3$

Find the slope and y -intercept of the graph of each equation. Then write each equation in slope-intercept form.

9. $0.2x + 0.5y = 1.6$

10. $3x + 7y = 10$

11. $6x - y = 9$

12. $14x - 21y = 7$