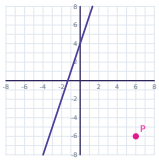
Slopes of Parallel & Perpendicular Lines · 1

Are the lines $y = -\frac{5}{4}x - 6$ and $y = -\frac{5}{4}x - 2$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 2

Write an equation of the line through P(6, -6) that is perpendicular to $y = 3x + 4$.



Slopes of Parallel & Perpendicular Lines · 3

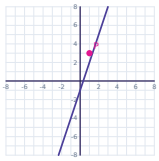
Are the lines $y = -\frac{5}{4}x + 5$ and $y = -\frac{5}{4}x - 3$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 4

Are the lines $y = \frac{1}{2}x + 2$ and $2x - 4y = 9$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 5

Write an equation of the line through P(1, 3) that is parallel to $y = 3x - 1$.



Slopes of Parallel & Perpendicular Lines · 6

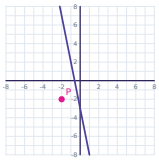
Are the lines $y = \frac{5}{3}x - 2$ and $y = \frac{3}{5}x - 3$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 7

Are the lines $y = -\frac{3}{4}x + 3$ and $y = \frac{1}{4}x + 2$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 8

Write an equation of the line through P(-2, -2) that is parallel to $y = -5x - 3$.



Slopes of Parallel & Perpendicular Lines · 2

ANSWER

$y = -3\frac{1}{}x - 4$

Slopes of Parallel & Perpendicular Lines · 1

ANSWER

parallel

Slopes of Parallel & Perpendicular Lines · 4

ANSWER

parallel

Slopes of Parallel & Perpendicular Lines · 3

ANSWER

parallel

Slopes of Parallel & Perpendicular Lines · 6

ANSWER

neither

Slopes of Parallel & Perpendicular Lines · 5

ANSWER

y = 3x

Slopes of Parallel & Perpendicular Lines · 8

ANSWER

y = -5x - 12

Slopes of Parallel & Perpendicular Lines · 7

ANSWER

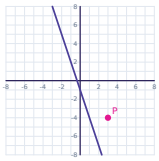
neither

Slopes of Parallel & Perpendicular Lines · 9

Are the lines $y = -\frac{1}{3}x + 2$ and $y = \frac{1}{3}x - 5$ parallel, perpendicular, or neither?

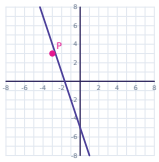
Slopes of Parallel & Perpendicular Lines · 10

Write an equation of the line through P(3, -4) that is perpendicular to y = -3x - 1.



Slopes of Parallel & Perpendicular Lines · 11

Write an equation of the line through P(-3, 3) that is perpendicular to y = -3x - 5.



Slopes of Parallel & Perpendicular Lines · 12

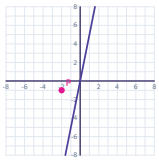
Are the lines $y = -\frac{1}{3}x - 2$ and $y = 3x - 1$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 13

Are the lines $y = \frac{3}{2}x - 5$ and $y = -\frac{2}{3}x - 3$ parallel, perpendicular, or neither?

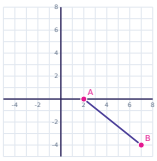
Slopes of Parallel & Perpendicular Lines · 14

Write an equation of the line through P(-2, -1) that is parallel to y = 5x.



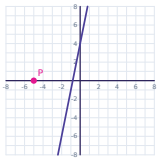
Slopes of Parallel & Perpendicular Lines · 15

Line ℓ passes through A(2, 0) and B(7, -4). Find the slope of a line parallel to ℓ.



Slopes of Parallel & Perpendicular Lines · 16

Write an equation of the line through P(-5, 0) that is perpendicular to y = 5x + 4.



Slopes of Parallel & Perpendicular Lines · 10

ANSWER

$$y = \frac{1}{3}x - 5$$

Slopes of Parallel & Perpendicular Lines · 9

ANSWER

neither

Slopes of Parallel & Perpendicular Lines · 12

ANSWER

perpendicular

Slopes of Parallel & Perpendicular Lines · 11

ANSWER

$$y = \frac{1}{3}x + 4$$

Slopes of Parallel & Perpendicular Lines · 14

ANSWER

$$y = 5x + 9$$

Slopes of Parallel & Perpendicular Lines · 13

ANSWER

perpendicular

Slopes of Parallel & Perpendicular Lines · 16

ANSWER

$$y = -\frac{1}{5}x - 1$$

Slopes of Parallel & Perpendicular Lines · 15

ANSWER

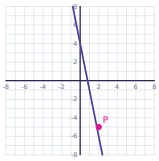
$$-\frac{4}{5}$$

Slopes of Parallel & Perpendicular Lines · 17

Are the lines $y = -\frac{1}{2}x + 2$ and $y = \frac{1}{2}x + 4$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 18

Write an equation of the line through P(2, -5) that is parallel to y = -5x + 4.



Slopes of Parallel & Perpendicular Lines · 19

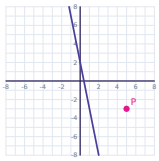
Are the lines $y = \frac{3}{5}x - 6$ and $10x + 6y = 6$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 20

Are the lines $y = -\frac{5}{3}x + 6$ and $y = \frac{3}{5}x$ parallel, perpendicular, or neither?

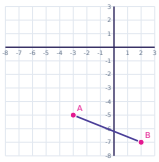
Slopes of Parallel & Perpendicular Lines · 21

Write an equation of the line through P(5, -3) that is perpendicular to y = -5x + 2.



Slopes of Parallel & Perpendicular Lines · 22

Line ℓ passes through A(-3, -5) and B(2, -7). Find the slope of a line parallel to ℓ.



Slopes of Parallel & Perpendicular Lines · 23

Are the lines y = -5x + 4 and x - 5y = -3 parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 24

Are the lines $y = -2x + 2$ and $y = \frac{1}{2}x - 2$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 18

ANSWER

$y = -5x + 5$

Slopes of Parallel & Perpendicular Lines · 17

ANSWER

neither

Slopes of Parallel & Perpendicular Lines · 20

ANSWER

perpendicular

Slopes of Parallel & Perpendicular Lines · 19

ANSWER

perpendicular

Slopes of Parallel & Perpendicular Lines · 22

ANSWER

$$\frac{2}{-5}$$

Slopes of Parallel & Perpendicular Lines · 21

ANSWER

$$\frac{1}{5}$$

$y = x - 4$

Slopes of Parallel & Perpendicular Lines · 24

ANSWER

perpendicular

Slopes of Parallel & Perpendicular Lines · 23

ANSWER

perpendicular