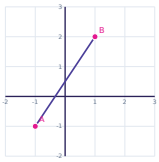
Are the lines $y = -2x + 2$ and $y = -\frac{1}{2}x + 1$ parallel, perpendicular, or neither?

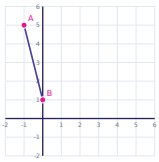
Are the lines $y = \frac{5}{3}x - 5$ and $y = \frac{8}{3}x + 6$ parallel, perpendicular, or neither?

Line ℓ passes through A(-1, -1) and B(1, 2). Find the slope of a line parallel to ℓ.



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

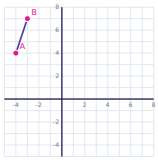
Line ℓ passes through A(-1, 5) and B(0, 1). Find the slope of a line parallel to ℓ.



Are the lines $y = x - 2$ and $y = 2x - 5$ parallel, perpendicular, or neither?

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

Line ℓ passes through A(-4, 4) and B(-3, 7). Find the slope of a line parallel to ℓ.



Slopes of Parallel & Perpendicular Lines · 2

ANSWER

neither

Slopes of Parallel & Perpendicular Lines · 1

ANSWER

neither

Slopes of Parallel & Perpendicular Lines · 4

ANSWER

parallel

Slopes of Parallel & Perpendicular Lines · 3

ANSWER

$$\frac{3}{2}$$

Slopes of Parallel & Perpendicular Lines · 6

ANSWER

neither

Slopes of Parallel & Perpendicular Lines · 5

ANSWER

-4

Slopes of Parallel & Perpendicular Lines · 8

ANSWER

3

Slopes of Parallel & Perpendicular Lines · 7

ANSWER

neither

Slopes of Parallel & Perpendicular Lines · 9

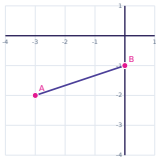
Are the lines $y = 5x + 2$ and $y = -\frac{1}{5}x$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 10

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

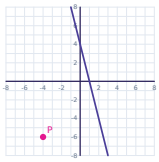
Slopes of Parallel & Perpendicular Lines · 11

Line ℓ passes through A(-3, -2) and B(0, -1). Find the slope of a line parallel to ℓ.



Slopes of Parallel & Perpendicular Lines · 12

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



Slopes of Parallel & Perpendicular Lines · 13

Are the lines $y = \frac{4}{5}x + 1$ and $y = -\frac{5}{4}x - 6$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 14

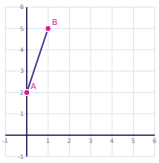
Are the lines $y = \frac{2}{3}x + 4$ and $y = \frac{4}{3}x - 2$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 15

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

Slopes of Parallel & Perpendicular Lines · 16

Line ℓ passes through A(0, 2) and B(1, 5). Find the slope of a line parallel to ℓ.



Slopes of Parallel & Perpendicular Lines · 10

ANSWER

perpendicular

Slopes of Parallel & Perpendicular Lines · 9

ANSWER

perpendicular

Slopes of Parallel & Perpendicular Lines · 12

ANSWER

$$y = \frac{1}{4}x - 5$$

Slopes of Parallel & Perpendicular Lines · 11

ANSWER

$$\frac{1}{3}$$

Slopes of Parallel & Perpendicular Lines · 14

ANSWER

neither

Slopes of Parallel & Perpendicular Lines · 13

ANSWER

perpendicular

Slopes of Parallel & Perpendicular Lines · 16

ANSWER

3

Slopes of Parallel & Perpendicular Lines · 15

ANSWER

perpendicular

Slopes of Parallel & Perpendicular Lines · 17

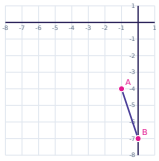
Are the lines y = -4x - 3 and y = -4x + 4 parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 18

Are the lines y = -x + 4 and y = -x - 2 parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 19

Line ℓ passes through A(-1, -4) and B(0, -7). Find the slope of a line parallel to ℓ.



Slopes of Parallel & Perpendicular Lines · 20

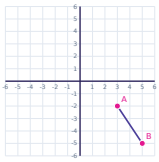
Are the lines $y = -\frac{5}{2}x - 1$ and $y = \frac{2}{5}x - 4$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 21

Are the lines y = -2x + 2 and y = -2x + 5 parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 22

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



Slopes of Parallel & Perpendicular Lines · 23

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

Slopes of Parallel & Perpendicular Lines · 24

Are the lines $y = -\frac{1}{2}x + 6$ and $y = -\frac{1}{2}x - 5$ parallel, perpendicular, or neither?

Slopes of Parallel & Perpendicular Lines · 18

ANSWER

parallel

Slopes of Parallel & Perpendicular Lines · 17

ANSWER

parallel

Slopes of Parallel & Perpendicular Lines · 20

ANSWER

perpendicular

Slopes of Parallel & Perpendicular Lines · 19

ANSWER

-3

Slopes of Parallel & Perpendicular Lines · 22

ANSWER

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

Slopes of Parallel & Perpendicular Lines · 21

ANSWER

parallel

Slopes of Parallel & Perpendicular Lines · 24

ANSWER

parallel

Slopes of Parallel & Perpendicular Lines · 23

ANSWER

perpendicular