Task card 1 Slopes of Parallel & Perpendicular...

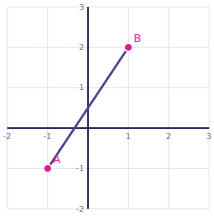
Are the lines $y = -2x + 2$ and $y = -\frac{1}{2}x + 1$ parallel, perpendicular, or neither?

Task card 2 Slopes of Parallel & Perpendicular...

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

Task card 3 Slopes of Parallel & Perpendicular...

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

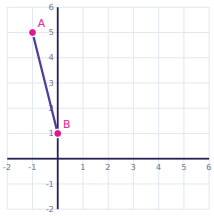


Task card 4 Slopes of Parallel & Perpendicular...

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

Task card 5 Slopes of Parallel & Perpendicular...

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



Task card 6 Slopes of Parallel & Perpendicular...

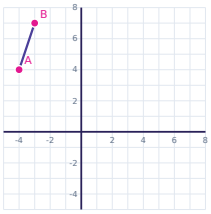
Are the lines $y = x - 2$ and $y = 2x - 5$ parallel, perpendicular, or neither?

Task card 7 Slopes of Parallel & Perpendicular...

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

Task card 8 Slopes of Parallel & Perpendicular...

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



Task card 9 Slopes of Parallel & Perpendicular...

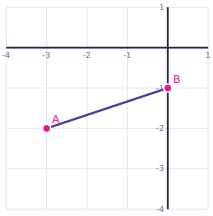
Are the lines $y = 5x + 2$ and $y = -\frac{1}{5}x$ parallel, perpendicular, or neither?

Task card 10 Slopes of Parallel & Perpendicular...

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

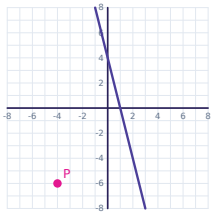
Task card 11 Slopes of Parallel & Perpendicular...

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



Task card 12 Slopes of Parallel & Perpendicular...

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



Task card 13 Slopes of Parallel & Perpendicular...

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

Task card 14 Slopes of Parallel & Perpendicular...

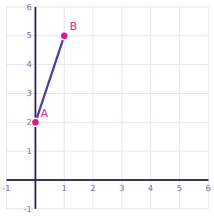
Are the lines $y = \frac{2}{3}x + 4$ and $y = \frac{4}{3}x - 2$ parallel, perpendicular, or neither?

Task card 15 Slopes of Parallel & Perpendicular...

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

Task card 16 Slopes of Parallel & Perpendicular...

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



Task card 17 Slopes of Parallel & Perpendicular...

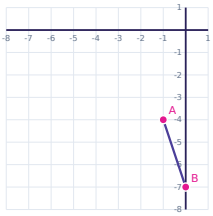
Are the lines $y = -4x - 3$ and $y = -4x + 4$ parallel, perpendicular, or neither?

Task card 18 Slopes of Parallel & Perpendicular...

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

Task card 19 Slopes of Parallel & Perpendicular...

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



Task card 20 Slopes of Parallel & Perpendicular...

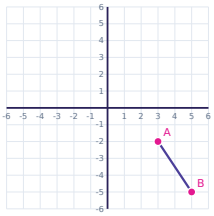
Are the lines $y = -\frac{5}{2}x - 1$ and $y = \frac{2}{5}x - 4$ parallel, perpendicular, or neither?

Task card 21 Slopes of Parallel & Perpendicular...

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

Task card 22 Slopes of Parallel & Perpendicular...

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



Task card 23 Slopes of Parallel & Perpendicular...

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

Task card 24 Slopes of Parallel & Perpendicular...

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 Task Cards

Recording sheet · Grade 10 · Write slopes as integers or fractions in simplest form. Write equations in slope-intercept form, y = mx + b.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Slopes of Parallel & Perpendicular Lines Task Cards: Answer Key

Grade 10 · Easy

The answers online

1. neither	**2.** neither	**3.** $\frac{3}{2}$
4. parallel	**5.** -4	**6.** neither
7. neither	**8.** 3	**9.** perpendicular
10. perpendicular	**11.** $\frac{1}{3}$	**12.** $y = \frac{1}{4}x - 5$
13. perpendicular	**14.** neither	**15.** perpendicular
16. 3	**17.** parallel	**18.** parallel
19. -3	**20.** perpendicular	**21.** parallel
22. $\frac{3}{-2}$	**23.** perpendicular	**24.** parallel