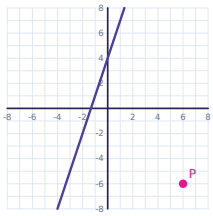
Task card 1 Slopes of Parallel & Perpendicular...

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

Task card 2 Slopes of Parallel & Perpendicular...

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



Task card 3 Slopes of Parallel & Perpendicular...

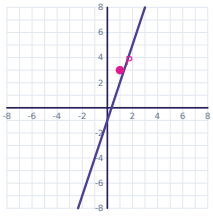
Are the lines $y = -\frac{5}{4}x + 5$ and $y = -\frac{5}{4}x - 3$ parallel, perpendicular, or neither?

Task card 4 Slopes of Parallel & Perpendicular...

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

Task card 5 Slopes of Parallel & Perpendicular...

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



Task card 6 Slopes of Parallel & Perpendicular...

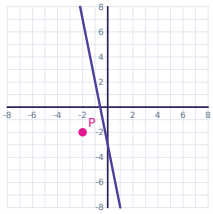
Are the lines $y = \frac{5}{3}x - 2$ and $y = \frac{3}{5}x - 3$ parallel, perpendicular, or neither?

Task card 7 Slopes of Parallel & Perpendicular...

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

Task card 8 Slopes of Parallel & Perpendicular...

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

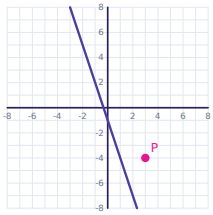


Task card 9 Slopes of Parallel & Perpendicular...

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

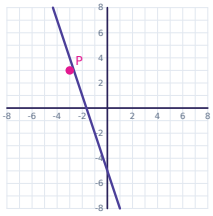
Task card 10 Slopes of Parallel & Perpendicular...

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



Task card 11 Slopes of Parallel & Perpendicular...

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



Task card 12 Slopes of Parallel & Perpendicular...

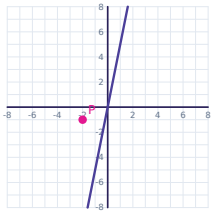
Are the lines $y = -\frac{1}{3}x - 2$ and $y = 3x - 1$ parallel, perpendicular, or neither?

Task card 13 Slopes of Parallel & Perpendicular...

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

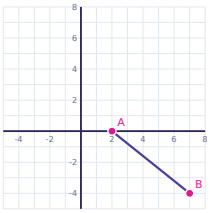
Task card 14 Slopes of Parallel & Perpendicular...

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



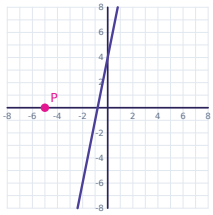
Task card 15 Slopes of Parallel & Perpendicular...

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



Task card 16 Slopes of Parallel & Perpendicular...

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

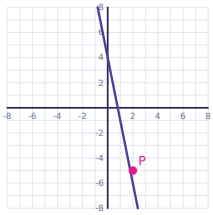


Task card 17 Slopes of Parallel & Perpendicular...

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

Task card 18 Slopes of Parallel & Perpendicular...

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



Task card 19 Slopes of Parallel & Perpendicular...

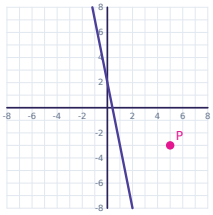
Are the lines $y = \frac{3}{5}x - 6$ and $10x + 6y = 6$ parallel, perpendicular, or neither?

Task card 20 Slopes of Parallel & Perpendicular...

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

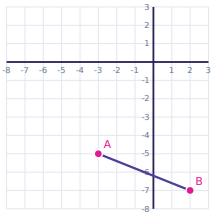
Task card 21 Slopes of Parallel & Perpendicular...

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



Task card 22 Slopes of Parallel & Perpendicular...

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



Task card 23 Slopes of Parallel & Perpendicular...

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

Task card 24 Slopes of Parallel & Perpendicular...

Are the lines $y = -2x + 2$ and $y = \frac{1}{2}x - 2$ 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 · Medium

The answers online

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