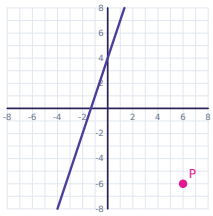
**Task card 1** Slopes of Parallel & Perpendicular...

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...

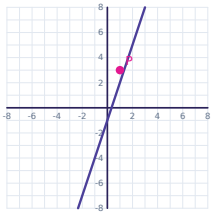
Are the lines $y = -\frac{5}{4}x + 5$ and $y = -\frac{5}{4}x - 3$ parallel, perpendicular, or neither?

**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...

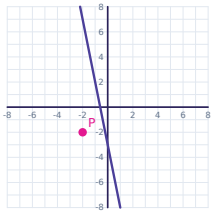
Are the lines $y = \frac{5}{3}x - 2$ and $y = \frac{3}{5}x - 3$ parallel, perpendicular, or neither?

**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.

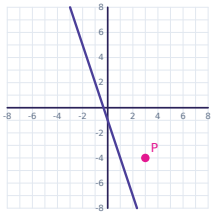



**Task card 9** Slopes of Parallel & Perpendicular...

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

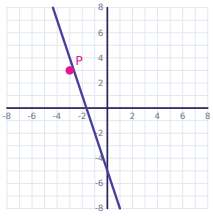
**Task card 10** Slopes of Parallel & Perpendicular...

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...

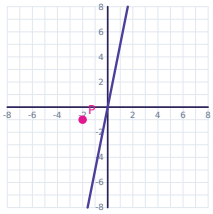
Are the lines $y = -\frac{1}{3}x - 2$ and $y = 3x - 1$ parallel, perpendicular, or neither?

**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?

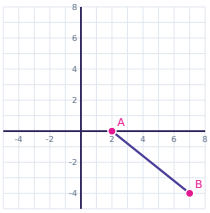
**Task card 14** Slopes of Parallel & Perpendicular...

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



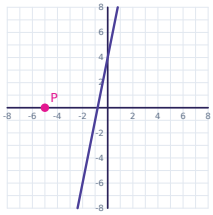

**Task card 15** Slopes of Parallel & Perpendicular...

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




**Task card 16** Slopes of Parallel & Perpendicular...

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

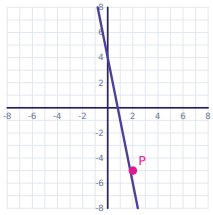



**Task card 17** Slopes of Parallel & Perpendicular...

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...

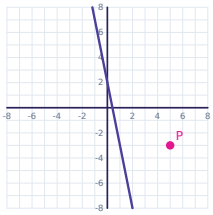
Are the lines $y = \frac{3}{5}x - 6$ and $10x + 6y = 6$ parallel, perpendicular, or neither?

**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?

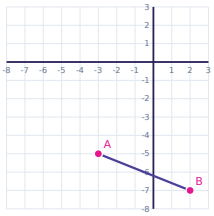
**Task card 21** Slopes of Parallel & Perpendicular...

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




**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 |