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

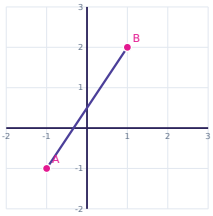
Are the lines $y = -2x + 2$ and $y = -\frac{1}{2}x + 1$ parallel, perpendicular, or neither?

**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 $\ell$ passes through A(-1, -1) and B(1, 2). Find the slope of a line parallel to $\ell$.

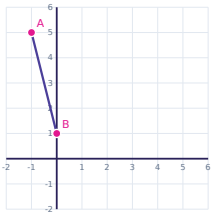



**Task card 4** Slopes of Parallel & Perpendicular...

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

**Task card 5** Slopes of Parallel & Perpendicular...

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




**Task card 6** Slopes of Parallel & Perpendicular...

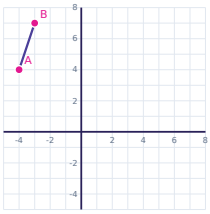
Are the lines $y = x - 2$ and $y = 2x - 5$ parallel, perpendicular, or neither?

**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 $\ell$ passes through A(-4, 4) and B(-3, 7). Find the slope of a line parallel to $\ell$.




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

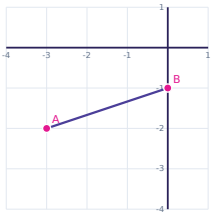
Are the lines $y = 5x + 2$ and $y = -\frac{1}{5}x$ parallel, perpendicular, or neither?

**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?

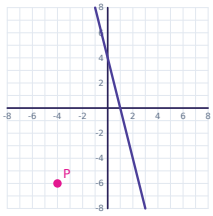
**Task card 11** Slopes of Parallel & Perpendicular...

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




**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...

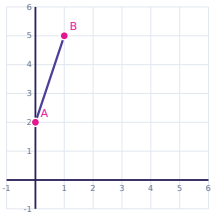
Are the lines $y = \frac{2}{3}x + 4$ and $y = \frac{4}{3}x - 2$ parallel, perpendicular, or neither?

**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 $\ell$ passes through A(0, 2) and B(1, 5). Find the slope of a line parallel to $\ell$.




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

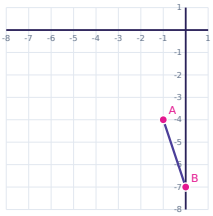
Are the lines $y = -4x - 3$ and $y = -4x + 4$ parallel, perpendicular, or neither?

**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 $\ell$ passes through A(-1, -4) and B(0, -7). Find the slope of a line parallel to $\ell$.




**Task card 20** Slopes of Parallel & Perpendicular...

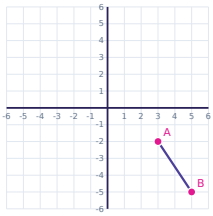
Are the lines $y = -\frac{5}{2}x - 1$ and $y = \frac{2}{5}x - 4$ parallel, perpendicular, or neither?

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




**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 |