

Slope and Graphing Linear Functions: math test, Grade 9 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Slopes of lines

/ 4 pts

Find the slope of the line through each pair of points, or write “undefined”.

- a. $(-3, 2)$ and $(1, 10)$
- b. $(4, -5)$ and $(-2, 7)$
- c. $(6, 1)$ and $(6, -4)$
- d. $(-7, 3)$ and $(2, 3)$

2 Slope-intercept form

/ 3 pts

A line passes through $(0, -4)$ and $(3, 2)$.

- a. Find its equation in slope-intercept form.
- b. What is y when $x = 10$?

3 Standard form and intercepts

/ 4 pts

Consider the line $3x - 4y = 24$.

- Find the x -intercept and the y -intercept.
- Draw the line on graph paper.
- Find its slope.

4 Point-slope form

/ 3 pts

A line has slope $-\frac{3}{2}$ and passes through $(4, 1)$. Write its equation in point-slope form, then in slope-intercept form.

5 Parallel and perpendicular

/ 3 pts

Let L be the line $y = -2x + 5$.

- Write the equation of the line parallel to L through $(1, 4)$.
- Write the equation of the line perpendicular to L through $(4, 3)$.

6 Printing pages

/ 3 pts

A printer prints 45 pages in 3 minutes. The number of pages p varies directly with the time t in minutes.

- Find the constant of variation.
- Write an equation and find how many pages are printed in 8 minutes.
- How long does it take to print 90 pages?



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