

Graphing Linear Equations: math test, Grade 8 – download the PDF

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

1 Slope and intercept

/ 3 pts

- State the slope and the y-intercept of $y = 6x - 8$.
- State the slope and the y-intercept of $y = -\frac{x}{4} + 3$.
- Does the line $y = 6x - 8$ rise or fall from left to right? Explain.

2 Table and graph

/ 4 pts

Consider $y = -3x + 2$.

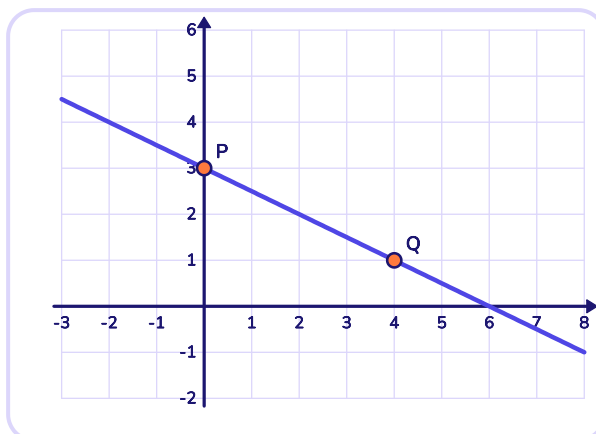
- Complete the table for $x = -2, -1, 0, 1, 2$.
- Graph the line on a coordinate plane.

x	-2	-1	0	1	2
y	?	?	?	?	?

3 Equation from a graph

/ 4 pts

The line below passes through $P(0, 3)$ and $Q(4, 1)$.



- Find the slope of the line.
- Write its equation.
- Find y when $x = 10$.

4 Horizontal and vertical lines

/ 3 pts

Consider the point $(-3, 6)$.

- Write the equation of the horizontal line through this point.
- Write the equation of the vertical line through this point.
- Give the slope of each line.

5 Is it linear?**/ 3 pts**

The table shows a linear relationship.

x	1	3	5	7
y	5	11	17	23

Find the rate of change, then write the equation.

6 Bike rental**/ 3 pts**

A shop charges \$8 plus \$6 per hour to rent a bike. Let C be the cost in dollars for h hours.

- Write an equation for C .
- Find the cost for 5 hours.
- How many hours can you rent for \$50?

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