Year 9 Linear and Quadratic Graphs – Developing

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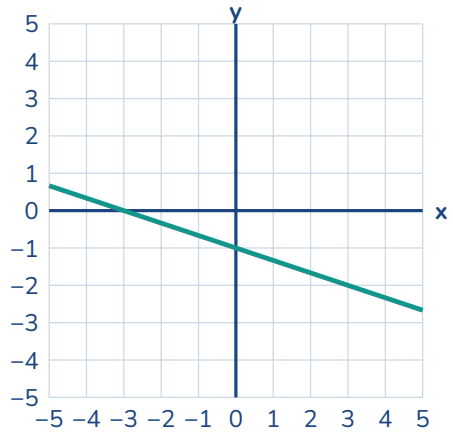
Year 9 · Maths · Linear and Quadratic Graphs · Level 2 Developing · 10 questions

Name _____ **Date** _____

A. Use graphs

1. Find the equation of the straight line drawn on the grid.



Answer _____

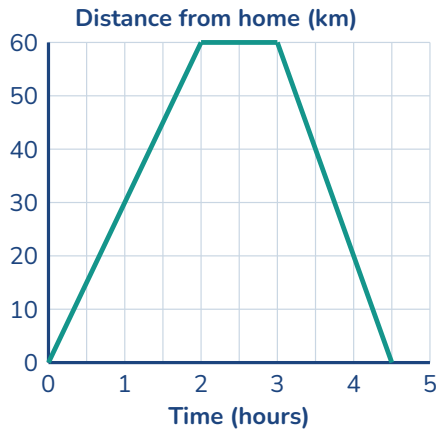
2. A 40 m rope is cut into x pieces 2 m long and y pieces 3 m long, with none left over. Write an equation connecting x and y.

Answer _____

3. Lina has $32 saved and adds $7 every week. Write an equation for her savings y dollars after x weeks.

Answer _____

4. The graph shows a school bus trip. Find the speed for the first part of the journey, and how long the stop lasted in minutes.



Answer _____

5. A metal has a density of 2.7 g/cm³. Find the mass of a 10 cm³ block of the metal.

Answer _____

6. A printer prints 540 pages in 5 minutes. At the same rate, how many pages does it print in an hour?

Answer _____

7. For the graph of $y = x^2 - 5$, find the two values of x where $y = 31$.

Answer _____

8. Write $-3x + 4y = 1$ in the form $y = mx + c$. State the gradient.

Answer _____

9. Bella says the line $2x + 3y = 18$ crosses the y-axis at (0, 18). Explain the mistake and give the correct answer.

Answer _____

10. Sort the graphs of $y = 2x + 2$, $y = (1/2)x + 2$, $y = -3x + 3$ and $2x + y = 4$ into straight lines and curves. Which straight line is the steepest?

Answer _____