Year 9 Linear and Quadratic Graphs – Foundation

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Year 9 · Maths · Linear and Quadratic Graphs · Level 1 Foundation · 10 questions

Name _____ **Date** _____

A. Graph skills

1. Find the coordinates of the points where the line $2x + 5y = 10$ crosses the x-axis and the y-axis.

Answer _____

2. Find the coordinates of the points where the line $4x + 2y = 16$ crosses the x-axis and the y-axis.

Answer _____

3. Write $2x + 5y = -12$ in the form $y = mx + c$. State the gradient.

Answer _____

4. Write $2x + 2y = 9$ in the form $y = mx + c$. State the gradient.

Answer _____

5. Write $3x + 2y = -7$ in the form $y = mx + c$. State the gradient.

Answer _____

6. Find the gradient of the straight line through (2, 1) and (4, −4).

Answer _____

7. Find the gradient of the straight line through (2, 2) and (5, 7).

Answer _____

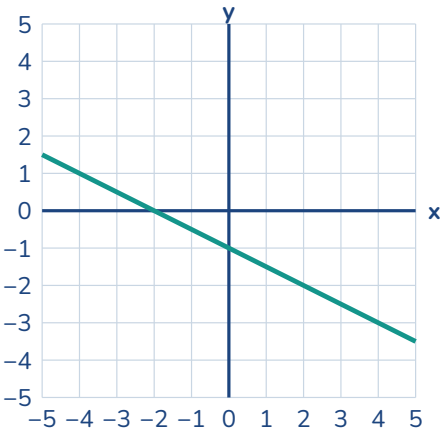
8. Where does the graph of $y = x^2 - 36$ cross the x-axis?

Answer _____

9. Adult tickets cost $9 and child tickets cost $5. A group spends exactly $90. Write an equation connecting the number of adults x and children y.

Answer _____

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



Answer _____