Name: _____ Nos: ___ Grade: ___ LESSON QUIZ

Analytical Geometry: Parallel lines & Perpendicular Lines - G10

Guidance 1. Read each question carefully before you begin answering it.

2. Don't spend too long on one question. 3. Attempt every question.

4. Check your answers seem right from the table given. 5. Always show your workings.

1. Write down the equation of the line that is parallel to $y = 6x + 1$ and passes through (0, 8). Answer: _____

2. Write down the equation of the line that is parallel to $x + 2y = 4$ and passes through the point (0, 5) Answer: _____

3. Write down the equation of a line perpendicular to $y = 2x + 3$.
   Answer: _____

4. Write down the equation of the line that is perpendicular to $y = \frac{1}{2}x + 3$ and passes through (0, −1) Ans: _____

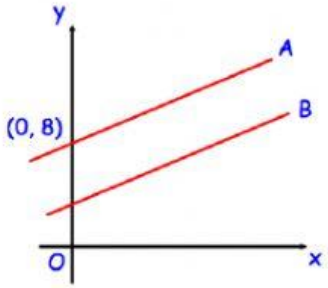
5. Write down the equation of the line that is perpendicular to $3x - y = 1$ and passes through (0, 9). Answer: _____

Drag all your answers from the table below appropriately.

Y = $-2x + 1$	**Y =** $-2x-1$	**Y =** $-\frac{1}{3}x + 9$	**Y =** $-2x$	**Y =** $-4x + 8$	**Y =** $\frac{4}{3}x + 5$	**Y =** $3x + 8$	**Y =** $-\frac{1}{2}x + 1$	**Y =** $6x + 8$	**Y =** $-\frac{1}{2}x + 5$

6. The lines A and B are parallel.
   The line A passes through the point (0, 8).
   The line B has equation $y = 3x + 1$.
   Write down the equation of line A

   Answer: _____



7. A straight-line L passes through the points (0, 6) and (4, −2). A straight-line M passes through the point (0, 1) and is parallel to line L. Find the equation of the Line M.
   Answer: _____

8. The lines A and B are perpendicular. Both lines pass through the point (0, 5)

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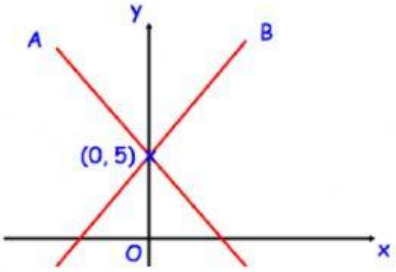
The gradient of line A is $-\frac{3}{4}$.

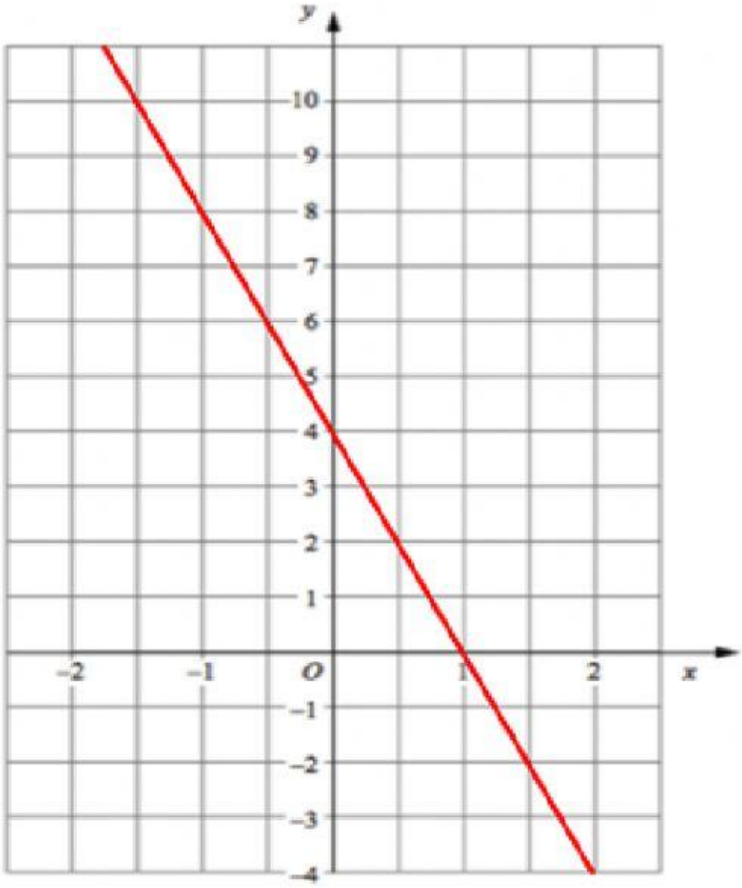
Write down the equation of line B

Answer: _____



9. The point A is (5, −2) and the point B is (11, 1). Find the equation of the line perpendicular to AB passing through the origin. Answer: _____

10. The line A is drawn on the grid. Another line B is parallel to line A and passes through the point (2, 0). Find the equation for line B.



Answer: _____

Click on finished, check your answers, well then, upload via class point or line ID: gpower11

IG: amb_ojo_oluwole_godspower

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