

Timester Challenge Parallel Lines







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Answers







- Lines A and B are parallel. The line A passes through the points (0, 5) and (2, 9).
- a) What is the equation of line A?

Gradient $=\frac{4}{2}=2, y=2x+5$

) Line B is parallel to line A and passes through the point (0, -2). What is the equation of this line?

$$y = 2x - 2$$

A straight line L passes through the points (0, 2) and (3, 11). A straight line M passes through the point (0, -1) and is parallel to the line L. Find the equation of the line M. Gradient of L = $\frac{9}{2}$ = 3 Equation of L y = 3x + 2Gradient of M = 3Gold 🤧 Equation of M y = 3x - 1A straight line L passes through the points (1,5) and (5,-3). A straight line M passes through the point (3, 2)and is parallel to the line L. Find the equation of the line M. Gradient of L = $\frac{-8}{1}$ = -2 Equation of M y = -2x + 8Equation of L y = -2x + cSub in Coordinate of M to find C (2) = -2(3) + cGold ¹

2 = -6 + cc = 2 + 6 = 8

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