



3 The equation of line L_1 is y = 9 - 4xThe equation of line L_2 is 2y + 8x = 10

Show that these two lines are parallel.

y = 9 - 4xgradient = -4 2y + 8x = 102y = 10 - 8xy=5-4xqradient = -4Both lines have same gradient so are parallel (Total for Question 3 is 2 marks) The equation of line \mathbf{L}_1 is $y = \frac{1}{2}x + 1$ 4 The equation of line L_2 is 6y - 3x = 30Show that these two lines are parallel. 6y - 3x = 30y= 2x+1 6y = 30 + 3xgradient = 1/2 y = S + 2xgradient = 1/2 Both lines have same gradient so are parallel (Total for Question 4 is 2 marks) The equation of line L_1 is y = 4 - x5 The equation of line L_2 is 5y - 5x - 50 = 0Show that these two lines are **not** parallel. y = 4 - x5y - 5x - 50 = 0gradient = -1 5y = 5x + 50y = x + 10gradient = 1 gradients are not equal so lines not parallel 1st (Total for Question 5 is 2 marks) 2

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- **9** Here are 4 graphs.



The table below contains four equations. Each of the graphs above is parallel to one of the equations below. Complete the table.

Equation	Graph Letter
y = 2x + 5	B
y + 2x = 10	С
2y = x + 6	A
2y + x = 8	D
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(Total for Question 9 is 3 marks)

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1st





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