| 2 | The point A has coordinates $(-5, 3)$, the point B has coordinates $(4, 0)$ and the point C has coordinates $(-1, 5)$. | |
|---|--|-----|
| | The line l passes through C and is perpendicular to AB . | |
| | (a) Find an equation of l . Give your answer in the form $ax + by + c = 0$ where a , b and c are integers. | (4) |
| | The line l intersects AB at the point D . | |
| | (b) Show that the coordinates of D are $(-2, 2)$. | (3) |
| | (c) Show that l is not the perpendicular bisector of AB . | (2) |
| | (d) Find the value of $\tan \angle ABC$. Give your answer in its simplest form. | (4) |
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| | (Total for Question 2 is 13 marks) |

