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| **Harder Coordinate Geometry** | | |
| **(a)** | **(b)** | **(c)** |
| Find an equation of the line that passes through the points and Give your answer in the form where , and are integers. | The straight line has equation  . Find an equation of the line that is parallel to and crosses the -axis at . | The straight line has equation  . The straight line passes through the points and . Show that the lines and are perpendicular to each other. |
| **(d)** | **(e)** | **(f)** |
| The straight line passes through the points and . Find an equation of the line that is parallel to and passes through the point . Give your answer in the form where , and are integers. | The straight line has equation  The straight line is perpendicular to and passes through the point Find the equation of the line and the coordinates of the point where it crosses the -axis. | is a triangle, where . The point has coordinates and points and lie on the line with equation  . Find the equation of the line that passes through and , giving your answer in the form where , and are integers. |