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| **Topic 2: Functions** | **Systems of Equations (Finding Points of Intersection)** | | |
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| 1. The equation of line one is      1. Write down the gradient of line one    2. A second line is perpendicular to line one. What is its gradient?    3. The point is on line two. Find the equation of line two.    4. Line one and line two intersect at point D. Find point D. | | | (1 mark)  (1 marks)   (2 marks)  (2 marks) |
| Mark scheme:   1. Perpendicular 2. or | | (A1)  (A1) (ft)   (M1) for substituting their slope and given point into linear equation (A1) (ft) for the correct equation  (A1)(ft) (A1)(ft) | |