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| **Topic 5: Calculus** | **The Gradient Function** | | |
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| 1. Given the function , find:    1. (i) the tangent to at   (ii) the equation of the tangent line   * 1. Given a second function, , the tangent line from (a)(ii) intersects at two points. Find the two points of intersection | | | (3 marks)  (2 marks)  (4 marks) |
| Mark scheme:   1. (i)   (ii) or   1. and  (Using a calculator or a form of systems of equations to solve) | | (A1)  (M1) (A1)  (A2) ft  (A2) ft (A2) ft | |