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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 |