|  |  |  |  |
| --- | --- | --- | --- |
| **Topic 1: Numbers and Algebra** | **Discriminant** | | |
|  | | | |
| 1. The equation has two distinct real roots. Find the possible values of . | | | (8 marks) |
| Mark scheme:  Attempt to solve  Correct working  and | | (M1) Use of discriminant  (A1) Correct substitution into discriminant  (A1) Correct discriminant  (R1) Knowing the discriminant must be positive  (M1)  (A1)  (A2) is all reals except 2 | |