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| **Topic 1: Numbers and Algebra**  | **Discriminant** |
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| 1. The equation has two distinct real roots. Find the possible values of .
 | (8 marks) |
| Mark scheme:Attempt to solveCorrect 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 |