**PURE MATHEMATICS TEST**

**TIME ALLOWED: 40 minutes** TOTAL MARKS = 22

**INSTRUCTIONS:** You can use a calculator.  
You **must** show your method.  
Answer **all** the questions.

You **must** make sure the work you present is yours and is not copied from somewhere else.

**FORMULARS:**

**Questions**

|  |  |  |
| --- | --- | --- |
| 1 | Write the following using positive integer | [4 marks] |
| 2 | Expand | [2 mark] |
|  |  |  |
|  |  |  |
| 3 | Expand the binomial expression  *(Hint: use pascals triangle)* | [3 mark] |
|  |  |
| 4 | Rearrange to find an expression for m | [3 mark] |
| 5 | Solve the quadratic equation for x;  *(Hint: use the quadratic formular)* | [3 mark] |
| 6 | Factorise the expressions |  |
|  | (a) | [2 marks] |
|  | (b) | [2 marks] |
| 7 | Solve the simultaneous equation | [3 mark] |
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