**How to get marks for AQA Core 4 Differential Equation questions**

1. Correct separation of variables (x terms on one side, y terms on the other)
2. Correctly integrate one side
3. Correctly integrate the other side
4. Find C
5. Put together and rearrange into required form

(Note that there may be more marks available if question is more complicated)

**How to get marks for AQA Core 4 Differential Equation Questions**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Question  & initial condition |  |  |  |  |  |
|  |  |  |  |  |
| Separation of variables |  |  |  |  |  |
| Correctly integrate one side |  |  |  |  |  |
| Correctly integrate the other side |  |  |  |  |  |
| Find C |  |  |  |  |  |
| Put together and rearrange into required form |  |  |  |  |  |
| Exam Paper Ref. | AQA Jun 12 (8b) | AQA Jan 13 (5b) | AQA June 13 (8b) | AQA June 14 (8b) | AQA June 15 (8a) |

**How to get marks for AQA Core 4 Differential Equation Questions - Answers**

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| --- | --- | --- | --- | --- | --- |
| Question  & initial condition |  |  |  |  |  |
|  |  |  |  |  |
| Separation of variables |  |  |  |  |  |
| Correctly integrate one side |  |  |  |  |  |
| Correctly integrate the other side |  |  |  |  |  |
| Find C |  |  |  |  |  |
| Put together and rearrange into required form |  |  |  |  |  |
| Exam Paper Ref. | [AQA Jun 12 (8b)](https://colmanweb.co.uk/pastpapers/Papers/A%20Level/AQA%206360/AQA-6360-MPC4/AQA-MPC4-W-MS-JUN12.PDF) | [AQA Jan 13 (5b)](https://colmanweb.co.uk/pastpapers/Papers/A%20Level/AQA%206360/AQA-6360-MPC4/AQA-MPC4-W-MS-JAN13.pdf) | [AQA June 13 (8b)](https://colmanweb.co.uk/pastpapers/Papers/A%20Level/AQA%206360/AQA-6360-MPC4/AQA-MPC4-W-MS-JUN13.pdf) | [AQA June 14 (8b)](https://colmanweb.co.uk/pastpapers/Papers/A%20Level/AQA%206360/AQA-6360-MPC4/AQA-MPC4-W-MS-JUN14.pdf) | [AQA June 15 (8a)](https://colmanweb.co.uk/pastpapers/Papers/A%20Level/AQA%206360/AQA-6360-MPC4/AQA-MPC4-W-MS-JUN15.PDF) |