|  |  |  |
| --- | --- | --- |
| Question | Main points of expected responses | |
|  |  | •1 2  •3 4  •5 6 |
|  | Format    Correct Differentiation  Format  Correct Differentiation  Format  Any one Correct  All Correct | •1  •2 **OR**  •3  • 4 **OR**  •5  •6 **OR**  •7 |
| 3 | Format  Correct Differentiation  Substitution and Answer | •1  •2  **OR**  •3 |
|  | Differentiation  Gradient  Coordinate  Equation | •1  •2  •3  •4 |
| 5 | •1 Initial Substitution  •2  Answer  •3 Initial Substitution  •4  Answer | •1  •2  •3  •4 |
| 6 | •1 Rearrange  •2  Two solutions for  •3 All solutions for  •4  Answer | •1  •2,3  •4 |

**Total 28 marks**