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| Rossmoyne SHS | METHODS 12 Mathematics  SPOT TEST 2, 2019  Week 5 Term 1  Time allowed: 20 minutes  No Calculator – 20 mks | MPj03877130000[1] |

Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. [9 mks]

Determine each of the following

|  |  |
| --- | --- |
| (a) |  |
| (b) |  |
| (c) |  |
| (d) |  |
| (e) |  |

1. [3 mks]

|  |  |
| --- | --- |
| If  and  find |  |

3. [2,2 mks]

Consider the curve defined by the equation

 where

The graph of is shown below



Determine

(a)  (b) the x-coordinate of the stationary point on the curve

4. [4 mks]

If  find