**YEAR 11 TEST 6 Review Homework Calculator Allowed HIGHER**

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|  | **Algebra: Tangents and Area** |  |
| **1.**  **F** | 1. The graph shows how a car’s speed, in m/s, varies in the first 6 seconds after the car 2. moves from rest.   a) Find the acceleration of the car after 3 seconds.  b) Find the distance travelled by the car in the first 5 seconds.  0  1  2  3  4  5  30  20  10  Velocity (m/s)  6  Time (seconds) | **(2)**  **(4)** |
| **2.**  **F** | The graph gives information about the variation in the temperature, in °C, of an amount  of water that is allowed to cool from 80 °C.  a) Work out the rate of decrease of temperature at *t* = 400  b) Work out the average rate of decrease of the temperature of the water between  *t* = 0 and *t* = 800. | **(2)**  **(2)** |
|  | **TOTAL** | **10** |