**Proportionality - Direct and Inverse**

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| **1)** If   varies as   and   when  . Find   |  |  |  | | --- | --- | --- | | a) the formula for   in terms of |  |  | |  |  |  | | b) the value of   given |  |  | |  |  |  | | c) the value of   given |  |  | | [1] |
| **2)** If   is proportional to the square of   and   when  . Find   |  |  |  | | --- | --- | --- | | a) the formula for   in terms of |  |  | |  |  |  | | b) the value of   given |  |  | |  |  |  | | c) the value of   given |  |  | | [1] |
| **3)** If   varies as   and   when  . Find   |  |  |  | | --- | --- | --- | | a) the formula for   in terms of |  |  | |  |  |  | | b) the value of   given |  |  | |  |  |  | | c) the value of   given |  |  | | [1] |
| **4)** If   varies directly as   and   when  . Find   |  |  |  | | --- | --- | --- | | a) the formula for   in terms of |  |  | |  |  |  | | b) the value of   given |  |  | |  |  |  | | c) the value of   given |  |  | | [1] |
| **5)** If   is inversely proportional to   and   when  . Find   |  |  |  | | --- | --- | --- | | a) the formula for   in terms of |  |  | |  |  |  | | b) the value of   given |  |  | |  |  |  | | c) the value of   given |  |  | | [1] |
| **6)** If   is inversely proportional to   and   when  . Find   |  |  |  | | --- | --- | --- | | a) the formula for   in terms of |  |  | |  |  |  | | b) the value of   given |  |  | |  |  |  | | c) the value of   given |  |  | | [1] |
| **7)** If   is inversely proportional to   and   when  . Find   |  |  |  | | --- | --- | --- | | a) the formula for   in terms of |  |  | |  |  |  | | b) the value of   given |  |  | |  |  |  | | c) the value of   given |  |  | | [1] |
| **8)** If   varies inversely as   and   when  . Find   |  |  |  | | --- | --- | --- | | a) the formula for   in terms of |  |  | |  |  |  | | b) the value of   given |  |  | |  |  |  | | c) the value of   given |  |  | | [1] |

**Solutions for the assessment Proportionality - Direct and Inverse**

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| **1)** a)     b)     c) | **2)** a)     b)     c) |
| **3)** a)     b)     c) | **4)** a)   = 6    b)     c) |
| **5)** a)     b)     c) | **6)** a)     b)     c) |
| **7)** a)     b)     c) | **8)** a)     b)     c) |