**S5 Exercise Nov 2014 (1996 Q3)**

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| **Code** | **Points to score** | **Marks** |
| A1  A2  A3  A4  A5  A6 | F = 9.0 – 12.0 recorded to 1 dp in cm 1 + ½  Columnar table of: X, U, v, y and  ………… @¼  Correct units for the columns: (cm), (cm), (cm), (cm) and (cm-1) ….. @¼  v: (41.0 – 70.0), (25.0 – 41.0), (20.0 – 31.0), (17.0 – 26.0), (15.0 – 23.0), (14.0 – 21)  ……………….@1  y calculated to 1 dp ……………. @¼  Calculated to 4 dp ……….. @¼ | 1½  1  1  6  1½  1½ |
|  |  | **12½** |
| B1  B2  B3  B4  B5  B6  B7  B8 | Title of the graph: *A graph of y against*  Axes: Each drawn with an arrow in the increasing direction, each labeled with quantity and unit ……….. ½ + ½    Scales: Uniform, each spanning at least ½ pg, demarcations marked, starting values  indicated ………... ½ + ½  Points correctly plotted: no shading ……….@½  Best fit : marked if at least 4 points were correctly plotted  Indication of triangle or equivalent for calculating s, covering all points  s correctly calculated if the coordinates were correctly read and  81 ≤ s ≤ 144cm-2, calculated to 4 decimal places …….. 1 + ½  f correctly calculated and is 9.0 ≤ f ≤ 12.0 cm recorded to 1dp….. 1 + ½ | ½  1  1  3  ½  ½  1½  1½ |
|  |  | **9½** |
| ***Total = 22*** | | |