Identifying the wavelength of Laser Light Marking key

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| **Experiment write up** | **Marks** |
| Complete Aim, materials, diagram and method from book | 1 |
| Hypothesis - suitable | 1 |
| Independent Variable | 1 |
| Controlled Variables | 1 |
| Dependent Variable | 1 |
| Table is suitable with data | 1 |
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| **Post lab Discussion** |  |
| Q1 – Calculate angles between central maxima to the orders for R, G and B | 1  1  1 |
| Q2 –  Draw graph for each colour  Draw Triangle  2 arbitrary points chosen for gradient | 3  1  1 |
| Q3 –  Calculate gradient  Correct Units  Use gradient to calculate wavelength | 3  1  3 |
| Q4 –  Calculate Absolute error and percentage error  Recorded actual wavelength on laser and used in the equation | 1  1 |
| Q5 –  Compare wavelength  Rank wavelength highest to lowest or vice versa and compare to expected values of R G B | 1  1 |
| **TOTAL** | **/25** |