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| **Algebra Revision** | | | | **5** |
| **(a)** | **(b)** | **(c)** | **(d)** | |
| (i) Plot the graph of    where    (ii) By plotting a straight line on the graph, find approximate solutions to the equation | Solve  giving your answers to 3 significant figures | Find the equation of the line that is perpendicular to  and passes through the point | is directly proportional to the cube of . When , .  (i) Find an equation for in terms of .  (ii) Find the value of when | |
| **(e)** | **(g)** | **(h)** | |
| Find the gradient of the line segment joining and | Write in the form | Use the graph to find an estimate of the gradient at the point where | |
| **(f)** |
| Simplify |