

Turn over


| 4(d) | $\begin{aligned} x=-0.7, & y=-1.4 \\ x=1.2, & y=0.8 \end{aligned}$ | [1] Answers are approximations Award mark as long as intersection points correspond to the graph drawn. |
| :---: | :---: | :---: |
| 5(a) | $\boldsymbol{x}$ -2 -1 0 1 2 3 <br> $\boldsymbol{y}$ 0.25 0.5 1 2 4 8 | [1] mark awarded for at least 3 correct values in the table <br> [1] mark awarded for all correct values in the table |
| 5(b) |  | [2] mark awarded for graph drawn from a smooth curve connecting the points from the table |
| 5(c) | The graph of $y=5^{x}$ grows quicker than $y=2^{x}$ after $x=0$. <br> The two graphs intersect at $(0,1)$. <br> As $x$ goes toward negative infinity, the graphs get closer and closer, but never meet. <br> As $x$ goes to positive infinity, the graphs grow further and further apart. | [1] Valid comment <br> [1] Valid comment <br> [1] Valid comment <br> [1] Valid comment <br> 1 mark per valid comment up to a maximum of 3 marks |
| 6 | A plot of a graph is more precise, using all the exact points. A sketch may use some of the known points that are then connected. | [1] Valid comment |
|  |  | [1] 1 correct sketch <br> [1] 1 correct sketch <br> [1] correctly identified roots |
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