|                 | Iter                                       | Iteration                    |              |
|-----------------|--|------------------------------|--------------|
|                 | REVISE THIS<br>TOPIC                       | CHECK YOUR<br>ANSWERS        |              |
| 1 A             | A sequence of numbers if formed by         | the iterative process        |              |
|                 | $u_{n+1} = \sqrt{\frac{u_n}{10} + 2}$      | <i>u</i> <sub>1</sub> = 42.5 |              |
| V               | Vork out the values of $u_2$ and $u_3$     |                              | [2 marks]    |
|                 |  |                              |              |
|                 |  |                              |              |
|                 | <i>u</i> <sub>2</sub> =                    |                              |              |
| 2               | $u_3 =$ A sequence of numbers if formed by | / the iterative process      |              |
|                 | $u_{n+1} = \frac{(u_n)^2 + 3}{5}$          | $u_1 = \sqrt{3}$             |              |
| ١               | Nork out the values of $u_2$ and $u_3$     |                              | [2 marks]    |
|                 |  |                              |              |
|                 | Ио =                                       |                              |              |
| 1 <sup>st</sup> | $u_2 = \_$                                 |                              | 4            |
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