Surds

1. Find the value of k in each of these

|  |  |  |  |
| --- | --- | --- | --- |
| a) | b) | c) | d) |
| e) | f) | g) | h) |

2. Simplify fully, write each in the form where k and m are both integers.

|  |  |  |  |
| --- | --- | --- | --- |
| a) | b) | c) | d) |
| e) | f) | g) | h) |

3. Write these as a single surd then evaluate

|  |  |  |  |
| --- | --- | --- | --- |
| a) | b) | c) | d) |
| e) | f) | g) | h) |

4. Evaluate

|  |  |  |  |
| --- | --- | --- | --- |
| a) | b) | c) | d) |

5. Write as a single surd then evaluate

|  |  |  |  |
| --- | --- | --- | --- |
| a) | b) | c) | d) |
| e) | f) | g) | h) |

6. Evaluate

|  |  |  |  |
| --- | --- | --- | --- |
| a) | b) | c) | d) |

7. Expand & Simplify

|  |  |  |  |
| --- | --- | --- | --- |
| a) | b) | c) | d) |
| e) | f) | g) | h) |

8. Rationalise the denominators

|  |  |  |  |
| --- | --- | --- | --- |
| a) | b) | c) | d) |
| e) | f) | g) | h) |