**FACTORISATION**

Sum of and Difference between two cubes

To factorise the sum of two cubes :

* **First bracket :**  Cube root of the first cube + cube root of second cube.
* **Second bracket :** Use the values in the first bracket to calculate the second bracket:

(first term)2 + (first term) x (second term) + (second term)2

To factorise the difference of two cubes :

* **First bracket :** cube root of the first cube – cube root of the second cube.
* **Second bracket :** Use the values in the first bracket to calculate the second bracket :

(first term)2 + (first term) x (second term) + (second term)2

Here’s a few worked examples:

Factorise :

**Solutions**

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Factorise: