(FP₁)

Roots of Polynomials
Notes

Formulae of Algebra:

1. $(a+b)^2 = a^2 + b^2 + 2ab \Rightarrow a^2 + b^2 = (a+b)^2 - 2ab$

2. $(a-b)^2 = a^2 + b^2 - 2ab \Rightarrow a^2 + b^2 = (a+b)^2 - 4ab$

3. $(a+b)^3 = a^3 + b^3 + 3ab(a+b) \Rightarrow a^3 + b^3 = (a+b)^3 - 3ab(a+b)$
$$= (a+b)(a^2 + b^2 - ab)$$

4. $(a+b+c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$
$$\Rightarrow a^2 + b^2 + c^2 = (a+b+c)^2 - 2(ab + bc + ca)$$

5. $(a+b+c)^3 = a^3 + b^3 + c^3 + 3(a+b+c)(ab + bc + ca) - 3abc$
$$\Rightarrow a^3 + b^3 + c^3 = (a+b+c)^3 - 3(a+b+c)(ab + bc + ca) + 3abc$$
$$\text{or } a^3 + b^3 + c^3 = (a+b+c)[a^2 + b^2 + c^2 - (ab + bc + ca)] + 3abc$$
$$= (a+b+c)[(a+b+c)^2 - 3(ab + bc + ca)] + 3abc \checkmark$$

6. $a^4 + b^4 + c^4 = (a^2 + b^2 + c^2)^2 - 2(a^2 b^2 + b^2 c^2 + c^2 a^2)$
$$= (a^2 + b^2 + c^2)^2 - 2[(ab + bc + ca)^2 - 2(a+b+c) \cdot abc]$$
$$= [(a+b+c)^2 - 2(ab + bc + ca)]^2 - 2[(ab + bc + ca)^2 - 2abc(a+b+c)]$$

Polynomial Ss1 Ss3 Further Mathematics

Xiaolong Qi

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