

(FP)

Roots of Polynomials

P-1

Notes

Formulae of Algebra:

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

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

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

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

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

$$5. (a+b+c)^3 = a^3 + b^3 + c^3 + 3(a+b+c)(ab+bc+ca) - 3abc$$

$$\Rightarrow a^3 + b^3 + c^3 = (a+b+c)^3 - 3(a+b+c)(ab+bc+ca) + 3abc$$

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

$$6. a^4 + b^4 + c^4 = (a^2 + b^2 + c^2)^2 - 2(a^2b^2 + b^2c^2 + c^2a^2)$$

$$= (a^2 + b^2 + c^2)^2 - 2[(ab+bc+ca)^2 - 2(a+b+c)abc]$$

$$= [(a+b+c)^2 - 2(ab+bc+ca)]^2 - 2[(ab+bc+ca)^2 - 2abc(a+b+c)]$$

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Michael Seery, Claire Mc Donnell

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