# (FPI)

## Roots of Polynomials Notes

# P-1

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

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. 
$$(a+b+c)^3 = a^3+b^3+c^3+3(a+b+c)(ab+bc+(a)-3abc)$$
  
 $\Rightarrow a^3+b^3+c^3=(a+b+c)^2-3(a+b+c)(ab+bc+(a)+3abc)$   
or  $a^3+b^3+c^3=(a+b+c)[a^2+b^2+c^2-(ab+bc+(a))+3abc)$   
=  $(a+b+c)[(a+b+c)^2-3(ab+bc+(a))+3abc)$ 

$$6 \quad \alpha^{4} + b^{4} + c^{4} = (\alpha^{2} + b^{2} + c^{2})^{2} - 2(\alpha^{2} + b^{2} + b^{2} + c^{2} + c^{2} + c^{2})^{2}$$

$$= (\alpha^{2} + b^{2} + c^{2})^{2} - 2[(\alpha b + b + c + ca)^{2} - 2(\alpha + b + c), \alpha b c]$$

$$= [(\alpha + b + c)^{2} - 2(\alpha b + b + c + ca)]^{2} - 2[(\alpha b + b + c + ca)^{2} - 2\alpha b c (\alpha + b + c)^{2} - 2(\alpha + b + c + ca)^{2} - 2(\alpha + b + ca)^{2} - 2(\alpha +$$

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#### **A Gutmann**

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