Formulele lui Vipte Radavini Palinamiele ni Caefiventi de adi 2 Quadritic: at +bx + c = 0 $ax^2+b+c=$ 9+B=-b & q.B=0 a(x-9).(x-B) de ordin3
Cubic: at + b x + c + d = 0 -> An trebui se aché 3 nadawni $a+^{3}+b+^{2}+c++d=a(+-9)(+-8)(+-8)$ $x^{3} + \frac{b}{a} + \frac{2}{a} + \frac{c}{a} + \frac{d}{a} = (+-4)(x-\beta)(x-\beta)(x-\beta)$ x3 + b 2 + C + d = x3 - 9 + 2 - B + 2 - 8 + 2 + 4 B x + B 8 x + 78 x -- 4B8 = - (4+B+X)x+(TB+BX+TX)x--4B8 · · · 9+3+8= -b 98+88+98=Ca

 $988 = -\frac{d}{a}$

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$$a+b+8+8=-\frac{b}{a}$$

Consideram:

$$\chi = -\frac{1 \pm \sqrt{-3}}{2} \implies \chi_1 = -\frac{1 - \sqrt{-3}}{2} = -\frac{1 + \sqrt{-3}}{2}$$

$$\chi = -\frac{1 \pm \sqrt{-3}}{2} = -\frac{1 + \sqrt{-3}}{2}$$

$$=\frac{1-(-3)}{4}=1$$

a

$$f^{2}$$
 + 2++5=0
Gaseste: (i) 9+B (iii) (9+2) (B+2)

(ii) 9.B

$$(i) - \frac{b}{a} = -2$$

(iii)
$$(9+2)(\beta+2) = 9\beta+29+2\beta+4$$

(ii)
$$\frac{c}{a} = 5$$

$$= 9\beta + 2(9+\beta) + 4$$

$$= 5 + 2(-2) + 4 = 5$$

(V) 9 + B + X2

$$(iii) \beta \beta \gamma$$

$$(iv) \frac{1}{2} + \frac{1}{2} + \frac{1}{2}$$

$$(i) - \frac{b}{a} = \frac{1}{2}$$

(i)
$$-\frac{b}{a} = \frac{1}{2}$$
 (ii) $\frac{c}{a} = 2$ (iii) $-\frac{d}{a} = -\frac{3}{2}$

(iv)
$$\frac{\beta \gamma}{9\beta \gamma} + \frac{9\gamma}{9\beta \gamma} + \frac{9\beta}{9\beta \gamma} = \frac{2}{\left(-\frac{3}{2}\right)} = -\frac{4}{2}$$