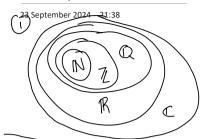
1 Complex numbers



(3)
$$f(x) = x^{3} - 6x^{2} + 37x - 58$$

$$f(z) = 0 : \text{ Solve } f(x) = 0$$

$$\therefore (x-2) := -f \text{ a.drv}$$

$$x-2 \left| \begin{array}{c} x^{3} - 6x^{2} + 37x - 58 \\ - x^{3} - 2x^{2} \\ - 4x^{2} + 37x \\ - - 4x^{2} + 8x \\ \hline 29x - 58 \\ - 29x - 58 \end{array} \right|$$

$$f(x) = (x-2)(x^2-4x+25)$$

$$(x-2)^2-4+29 = 0$$

$$x = 2 \pm \sqrt{-25}$$

$$x = 2 \pm 5i$$

$$x = 2, x = 2 \pm 5i$$

DONE

2)
$$\chi^{2} + 1 = 0$$

$$(\chi - \lambda)(\chi + \lambda) = 0$$

$$(\chi + \lambda)^{2} + 1 = 0$$

$$(\chi$$

We'd love your feedback!

We have just two questions for you.

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