

Example 1

Find all complex number solutions of the equation.

$$x^3 + 8 = 0$$

$$x^3 = -8$$

$$r = 8 \quad \theta = 180^\circ$$

$$\text{for } k = 0, 1, 2$$

$$\sqrt[n]{r} \left(\cos \left(\frac{\theta + 360^\circ \cdot k}{n} \right) + i \sin \left(\frac{\theta + 360^\circ \cdot k}{n} \right) \right)$$

$$k = 0, 1, 2, \dots, n-1$$

$$\sqrt[n]{r} = \sqrt[3]{8} = 2$$

$$k=0: 2 \left[\cos \left(\frac{180^\circ + 360^\circ \cdot 0}{3} \right) + i \sin \left(\frac{180^\circ + 360^\circ \cdot (0)}{3} \right) \right]$$

$$2 \left[\cos 60^\circ + i \sin 60^\circ \right] = 2 \operatorname{cis}(60^\circ)$$

$$k=1: 2 \operatorname{cis} \left(\frac{180^\circ + 360^\circ \cdot 1}{3} \right)$$

Find All Complex Number Solutions

M.L. Khanna



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web write the oxidation and reduction reactions for each redox reaction the first one is done for you 23 $\text{Fe}^{2+} + \text{CO} \rightarrow \text{CO}_2 + \text{Fe}$
 oxidation $\text{CO} + \text{CO}_2 + 2\text{e}^-$ reduction $\text{Fe}^{2+} + 2\text{e}^- \rightarrow \text{Fe}$ 24 $3\text{Ag} + \text{Ni}^{3+} \rightarrow 3\text{Ag} + \text{Ni}$ oxidation reduction 25 $\text{Cu}^{2+} + \text{Pb} \rightarrow \text{Pb}^{2+} + \text{Cu}$ oxidation reduction 26 O_2

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 $5\text{CO} + \text{I}_2 \rightarrow 5\text{CO}_2 + \text{I}_2$ $\text{O}_5 + 5\text{C} + \text{O}_2 \rightarrow 5\text{CO}_2$

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