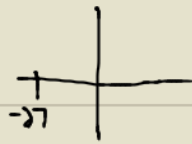


$$13. \quad x^5 = -27$$

$$\sqrt[5]{x^5} = \sqrt[5]{-27}$$

$$x = \sqrt[5]{-27}$$

$$-27$$



$$\theta = 180^\circ$$

$$r = 27$$

$$\sqrt[5]{27(\cos 180^\circ + i \sin 180^\circ)}$$

$$① \quad \sqrt[n]{r} = \sqrt[5]{27}$$

$$② \quad \angle A = \frac{\theta}{n} = \frac{180^\circ}{5} = 36^\circ$$

$$③ \quad \angle F = \frac{360}{n} = \frac{360}{5} = 72^\circ$$

$$④ \quad \text{1st Answer } \left(\sqrt[5]{27} (\cos 36^\circ + i \sin 36^\circ) \right)$$

$$+72^\circ \quad +72^\circ$$

$$\left(\sqrt[5]{27} (\cos 108^\circ + i \sin 108^\circ) \right)$$

$$+72^\circ \quad +72^\circ$$

$$\left(\sqrt[5]{27} (\cos 180^\circ + i \sin 180^\circ) \right)$$

$$+72^\circ \quad +72^\circ$$

$$\left(\sqrt[5]{27} (\cos 252^\circ + i \sin 252^\circ) \right)$$

$$+72^\circ \quad +72^\circ$$

$$\left(\sqrt[5]{27} (\cos 324^\circ + i \sin 324^\circ) \right)$$