

Примеры 9

③ б) $9x^2 + 1 = 0$

$$9x^2 = -1$$

$$x^2 = -\frac{1}{9}$$

$$x^2 = (-1)^2 \cdot \left(\frac{1}{3}\right)^2$$

$$x = \pm \frac{1}{3} \cdot (-1) = \pm \frac{i}{3} // \text{ответ}$$

④ г) $z_5 = -3 + 3i$

$$A = -3 \quad B = 3$$

$$z_5 = r \cdot e^{i\varphi}$$

$$r = \sqrt{9+9} = 3\sqrt{2}$$

$$\varphi = \pi + \arctg -1 = \frac{3\pi}{4}$$

$$z = 3\sqrt{2} \cdot e^{\frac{3\pi}{4} \cdot i} // \text{ответ}$$

