

4219

Talet z kan skrivas som

$$z = 1 \left(\cos \left(\frac{2\pi}{3} \right) + i \sin \left(\frac{2\pi}{3} \right) \right) = 1 \left(-\frac{1}{2} + i \frac{\sqrt{3}}{2} \right) = -\frac{1}{2} + i \frac{\sqrt{3}}{2}$$

Då får vi

$$-iz = -i \left(-\frac{1}{2} + i \frac{\sqrt{3}}{2} \right)$$

$$= \frac{i}{2} - i^2 \frac{\sqrt{3}}{2}$$

$i^2 = -1$

$$= \frac{i}{2} + \frac{\sqrt{3}}{2} = \frac{\sqrt{3}}{2} + \frac{1}{2}i \quad (\underline{\underline{\text{Svar}}})$$

