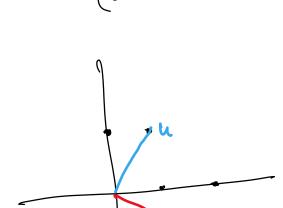
måndag 19 december 2022

$$2 = \frac{1 + i\sqrt{3}}{(2 - 2i)^3}$$



$$u = 1 + i \sqrt{3} (w)^2 = (2 - 2i)^3$$

$$7 = \frac{1 + i\sqrt{3}}{(2 - 2i)^3}$$

$$|u| = 1 + i\sqrt{3} \quad (w) = (2 - 2i)^3$$

$$|u| = 2 \quad |w| = \sqrt{8} = 2\sqrt{2}$$

$$0 = -\sqrt{4}$$

$$0 = \sqrt{8} \quad w = 2\sqrt{2}e^{i\sqrt{4}}$$

$$u = 2e^{i\sqrt{4}}$$

$$w^3 = 2\sqrt{2}e^{i\sqrt{4}}$$

$$\frac{2e}{2^{9/2}-i^{2}\sqrt{4}} = 2e \cdot 2e = 2^{9/2}\cdot 2^{1/2}$$

$$= 2^{1/2}e(\sqrt{3}+3\sqrt{4}) = 2e = 2e$$

$$= 2^{1/2}e(\sqrt{3}+3\sqrt{4}) = 2e$$

$$= 2e$$

Sv: arg 7 = 13 1/12 + n 21, n=heltal