

1.08

lördag 20 januari 2024

19:05

a)

$$A = \sqrt{2}$$

$$a = -\frac{1}{\sqrt{2}} = \sin \theta$$

$$\theta = \frac{5\pi}{4}$$

$$S_1: \sqrt{2} e^{i 5\pi/4}$$

b)

$$A = \sqrt{1} = 1$$

$$a = 1 = \sin \theta$$

$$\theta = \pi/2 + 2\pi k \quad (k=0)$$

$$b = 0 = \cos \theta$$

$$S_1: e^{i \pi/2}$$