

PROBLEM:

This problem is concerned with operations on complex numbers.

- (a) Find the magnitude of the complex number $(4 - j)e^{j(0.4\pi)t}$.

$$|(4 - j)e^{j(0.4\pi)t}| =$$

- (b) Find ONE value for θ so that $\operatorname{Re} \left\{ (1 - j\sqrt{3})e^{j\theta} \right\} = 0$.

$$\theta =$$