

## PROBLEM:

This problem is concerned with operations on complex numbers.

- (a) Find the magnitude of the complex number  $(2 - j)e^{j(0.4\pi)t}$ .

$$|(2 - j)e^{j(0.4\pi)t}| =$$

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

$$\theta =$$