PROBLEM:

This problem is concerned with operations on complex numbers.

(a) Find the magnitude of the complex number $(1+3j)e^{j(0.4\pi)t}$.

$$|(1+3j)e^{j(0.4\pi)t}| =$$

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

$$\theta =$$