

## Home work 2 (Contd.)

I Write the following in polar form and plot in Complex plane.

1)  $(1-j)^2$

2)  $\frac{(\sqrt{2} + j)}{(1-j\sqrt{2})}$

II Evaluate.

a)

$$\int_0^{\infty} t e^{-t} dt$$

Use Integration by parts  
no tables.

(b)  $\sum_{n=0}^{\infty} \left(\frac{1}{3}\right)^n \cos\left(\frac{\pi}{2} n\right)$