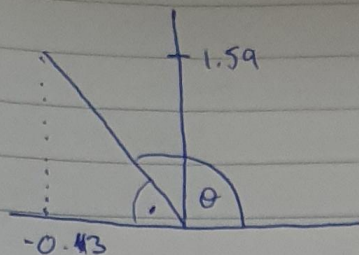


Adam Evans 200595911/12/20

b) continued



$$r^2 = x^2 + y^2$$

$$= 0.3^2 + 1.59^2$$

$$= 0.09 + 2.5281$$

$$= \sqrt{2.6181}$$

$$r = \boxed{1.618}$$

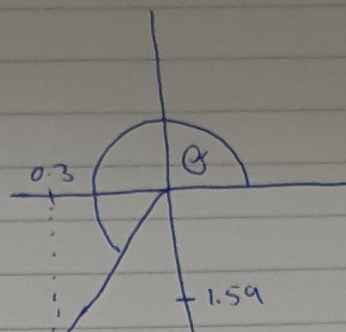
$$\tan \phi = \frac{1.59}{0.3}$$

$$\phi = \tan^{-1} \frac{1.59}{0.3}$$

$$\phi = 79.3$$

$$\theta = 180 - 79.3 = \boxed{100.68}$$

$$\boxed{1.618 (\cos 100.68 + j \sin 100.68)}$$



$$r^2 = x^2 + y^2$$

$$r = 1.618$$

$$\phi = 79.3$$

$$\theta = 79.3 + 180 = 259.3$$

$$\boxed{1.618 (\cos 259.3 + j \sin 259.3)}$$