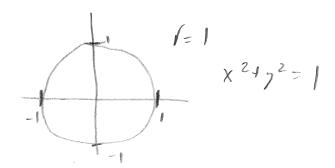
Def J Unit circle



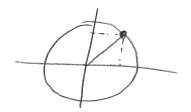
$$1 = \chi^{2} + y^{2} = \left(\frac{1}{3}\right)^{2} + y^{2} \longrightarrow y^{2} = \frac{8}{9} \longrightarrow y^{2} = \frac{18}{3}$$

$$\left(\frac{1}{3}, \frac{F_{3}}{3}\right)$$

$$\left(\frac{1}{3}, -\frac{1F_{3}}{3}\right)$$

Det) Trymonethic point Plt) is the point after trabelling tradiens about the circle, st. 1ti-2 at (1,0)

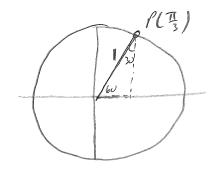
EX

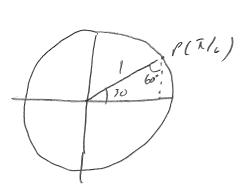


Let 
$$P(\frac{\pi}{4}) = (x_{ij})$$
, We know that  $X^2 + y^2 = 1$  and  $y = x$ .

Here, 
$$x$$
 is positive. So,
$$P(\frac{\pi}{4}) = \left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$$

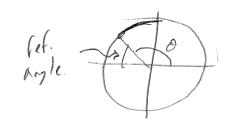
Ex) What about 
$$P(\frac{\pi}{3})$$
 or  $P(\frac{\pi}{6})$ ?
$$\frac{\pi}{3} fal = 60^{\circ}, \quad \frac{\pi}{6} fal = 30^{\circ}$$





Det J Reference angle: smallest angle to 66.2 X-axis

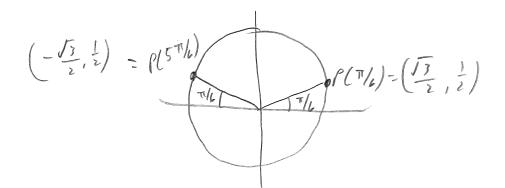
Ex



Q: Why we leference angles use f-1?

A: If we know P(0), P(T/a), P(T/a), P(T/a), P(T/a), P(T/a), P(T/a), P(T/a), we can fill out points along the entire

unit cilcle



 $\frac{1}{2} \int \frac{g(x)(x)}{x} \left( \frac{1}{2} - \frac{1}{2} \right) \frac{1}{2} \int \frac{1}{2$ 

See Table 66.3

3

				*