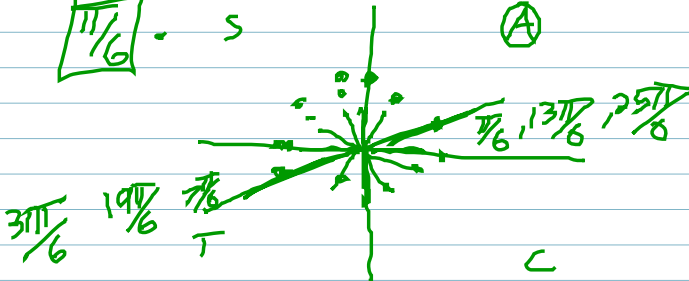


Math 1060 4.3.35

$$\cot \boxed{3x} - \sqrt{3} = 0 \text{ for } x \text{ in } \boxed{(0, 2\pi)}$$

$$\cot \boxed{3x} = \sqrt{3} \quad \text{Think } \cos \neq \sqrt{3}$$

$$\boxed{\pi/6} \cdot 3$$



3 times around

$$\frac{3x}{3} = \frac{\pi}{6}, \frac{7\pi}{6}, \frac{13\pi}{6}, \frac{19\pi}{6}, \frac{25\pi}{6}, \frac{31\pi}{6}$$

$$x = \frac{\pi}{18}, \frac{7\pi}{18}, \frac{13\pi}{18}, \frac{19\pi}{18}, \frac{25\pi}{18}, \frac{31\pi}{18}$$

in $(0, 2\pi)$

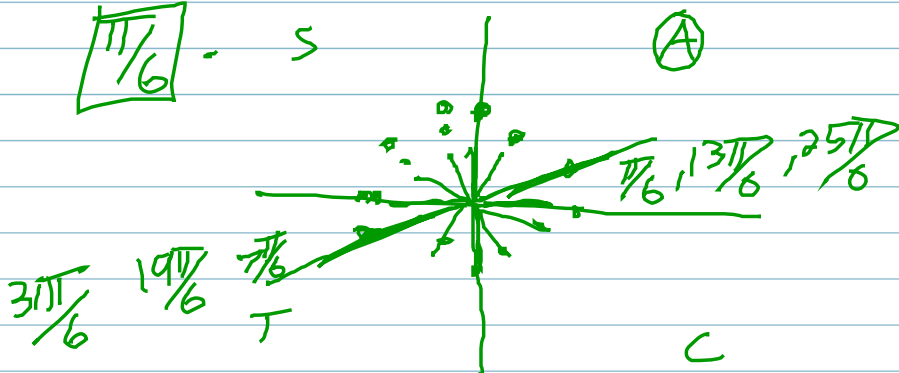


Math 1060 4-3.35

$$\cot \boxed{3x} - \sqrt{3} = 0 \text{ for } x \text{ in } \boxed{[0, 2\pi)}$$

$$\cot \boxed{3x} = \sqrt{3} \quad \text{Think } \cos \neq \sqrt{3}$$

$$\boxed{\pi/6} - 5$$



3 times around

$$\underline{\underline{3x}} = \frac{\pi}{6}, \frac{7\pi}{6}, \frac{13\pi}{6}, \frac{19\pi}{6}, \frac{25\pi}{6}, \frac{31\pi}{6}$$

$$\underline{\underline{x}} = \frac{\pi}{18}, \frac{7\pi}{18}, \frac{13\pi}{18}, \frac{19\pi}{18}, \frac{25\pi}{18}, \frac{31\pi}{18}$$

in $[0, 2\pi)$

\square