

4.3.3

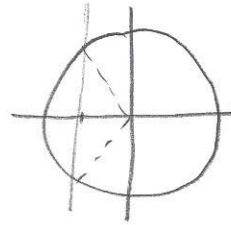
I

a)  $\cos(t) = -\frac{1}{2}$

$\boxed{\text{TI}}$   $t = 120^\circ$

Donc  $t = \begin{cases} 120^\circ + k \cdot 360^\circ \\ -120^\circ + k \cdot 360^\circ \end{cases}$

$k \in \mathbb{Z}$

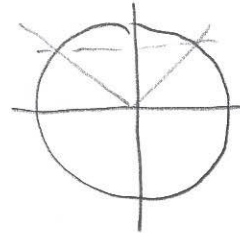


b)  $\sin(t) = 0.829$

$\boxed{\text{TI}}$   $t \approx 56^\circ$

Donc  $t = \begin{cases} 56^\circ + k \cdot 360^\circ \\ \underbrace{180^\circ - 56^\circ}_{124^\circ} + k \cdot 360^\circ \end{cases}$

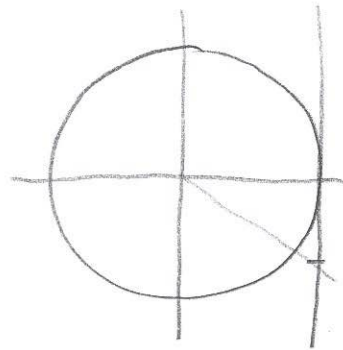
$k \in \mathbb{Z}$



c)  $\tan(t) = -0.754$

$\boxed{\text{TI}}$   $t \approx -37^\circ$

$t = 143^\circ + k \cdot 180^\circ$

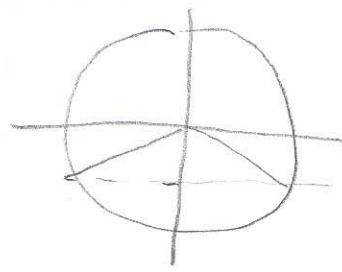


d) impossible

e)  $\tan(t) = 5.33$

$t \approx 79,37^\circ + k \cdot 180^\circ$

$$f) \sin(3t) = -\frac{\sqrt{3}}{2}$$



4.3.3 II

$$\boxed{\text{TI}} \quad 3t = -60^\circ$$

$$\text{Donc} \quad 3t = -60^\circ + k \cdot 360^\circ \quad \underline{\text{ou}} \quad 3t = 240^\circ + k \cdot 360^\circ$$

$$t = -20^\circ + k \cdot 120^\circ \quad \underline{\text{ou}} \quad t = 80^\circ + k \cdot 120^\circ$$

$$g) \tan(5t) = 3,273$$

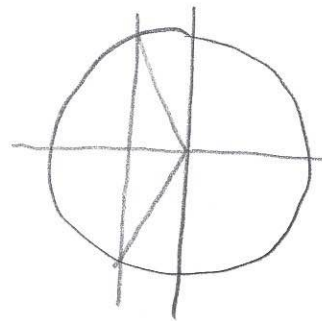
$$\boxed{\text{TI}} \quad 5t \cong 73^\circ$$

$$\text{Donc} \quad 5t \cong 73^\circ + k \cdot 180^\circ$$

$$t \cong 14,6^\circ + k \cdot 36^\circ$$

$$h) \cos\left(\frac{t}{2}\right) = -\frac{1}{2}$$

$$\boxed{\text{TI}} \quad \frac{t}{2} = 120^\circ$$



$$\text{Donc} \quad \frac{t}{2} = 120^\circ + k \cdot 360^\circ$$

$$\underline{\text{ou}} \quad \frac{t}{2} = -120^\circ + k \cdot 360^\circ$$

$$t = 240^\circ + k \cdot 720^\circ$$

$$\underline{\text{ou}} \quad t = -240^\circ + k \cdot 360^\circ$$