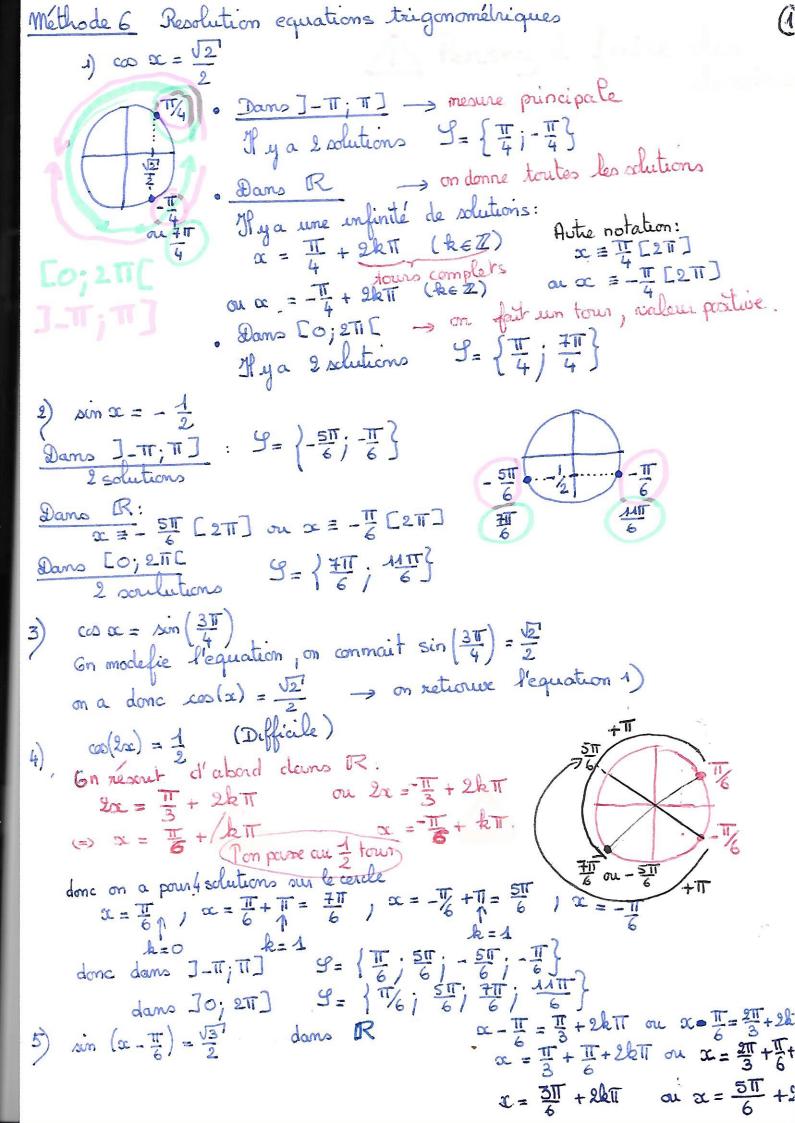
```
Methode 5
1) a) A = \cos\left(\frac{\pi}{2} - \alpha\right) + \cos\left(2\pi + \alpha\right) + 2\sin\left(\pi + \alpha\right)
            con utilise les propriétes mes ci dessus, 6n les retroive
                                                                               M(\frac{\pi}{2} - x) \longrightarrow \begin{cases} \cos(\frac{\pi}{2} - x) = \sin x \\ \sin(\frac{\pi}{2} - x) = \cos x \end{cases}
      en faisant un schima
                                                                                  --- M(x) et (211+a)
                                                                                       M_3(-x) \rightarrow |\cos(-x)| = \cos x

|\sin(-x)| = -\sin x
  ( cos(T+x) = - cosx
  x \text{ min} (T+x) = - x \text{ min}
       done A = \sin(x) + \cos(x) + 2(-\sin(x)) = \frac{\cos(x) - \sin(x)}{\cos(x)}
        b) B = 3\cos(\pi + \infty) + 5\sin(\frac{\pi}{2} - \infty) + 2\sin(-\infty)
                 B=3(-cos(x)) +5 ces(x) - 2sin(x)
                B = 2\cos(\infty) - 2\sin(\infty)
      a) on out que \cos^2(\alpha) + \sin^2(\alpha) = 1 ou (\cos(\alpha))^2 + (\sin(\alpha))^2 = 1
                done \left(\cos\left(\frac{\pi}{5}\right)\right)^2 + \left(\sin\left(\frac{\pi}{5}\right)\right)^2 = 1
                                 \left(\frac{1+\sqrt{5'}}{4}\right)^2 + \left(\sin\left(\frac{\pi}{5}\right)\right)^2 = 1
                                                            \left(\sin\left(\frac{\pi}{5}\right)\right)^2 = 1 - \left(\frac{1 + 2\sqrt{5} + 5}{16}\right)
                                                            \left(\sin\left(\frac{\pi}{5}\right)\right)^2 = \frac{10 - 2\sqrt{5}}{16}
                  comme T \in [0; T] sin (T) \ge 0 donc sin (T) = 10 - 2057 = 10 - 2059
       b) • \cos\left(\frac{4\pi}{5}\right) = \cos\left(\pi - \frac{\pi}{5}\right) = -\cos\left(\frac{\pi}{5}\right) = -\frac{1+\sqrt{5}}{4}

\sin\left(\frac{4\pi}{5}\right) = \sin\left(\pi - \frac{\pi}{5}\right) = \sin\left(\frac{\pi}{5}\right) = \frac{1+\sqrt{5}}{4}
            \cos\left(-\frac{\pi}{5}\right) = \cos\left(\frac{\pi}{5}\right) = \frac{1+\sqrt{5}}{4}
\sin\left(-\frac{\pi}{5}\right) = \sin\left(\frac{\pi}{5}\right) = -\frac{\sqrt{10-2\sqrt{5}}}{4}
             • \cos\left(\frac{6\pi}{5}\right) = \cos\left(\pi + \frac{\pi}{5}\right) = -\cos\frac{\pi}{5} = -\frac{1+\sqrt{5}}{1}
                  sin\left(\frac{6\pi}{5}\right) = sin\left(\pi + \frac{\pi}{5}\right) = -sin\frac{\pi}{5} = -\frac{4\sqrt{10-207}}{5}
            0 \cos\left(\frac{3\pi}{5}\right) = \cos\left(\frac{\pi}{2} - \frac{\pi}{5}\right) = \sin\left(\frac{\pi}{5}\right) = -\sqrt{10-205^2}
                sin\left(\frac{3T}{5}\right) = sin\left(\frac{T}{2} - \frac{T}{5}\right) = cos\left(\frac{T}{5}\right) = 1 + \sqrt{5}
```



Methode 6 (suite) 5 suite on twowe $\alpha = \frac{11}{2} + 2k\pi$ on $\alpha = \frac{511}{6} + 2k\pi$ dams J-T;T] 2 solutions $S = \{\frac{T}{2}, \frac{517}{6}\}$ dano [0; 2TT[2 solutions J= { = 1 51 } Methode 7. QCM 1) x = [TT; 2TT • $\sin \cos(\alpha x) = -\frac{4}{5}$ $\Rightarrow \sin(\alpha x) \leq 0$ -> reponce 1 juste • $(\cos(\alpha))^2 + (\sin(\alpha))^2 = 1$ -> réponse 3 $[-\frac{4}{5}]^2 + (\sin(\alpha))^2 = 1$ Laure $\frac{16}{25} + \left(\min\left(x\right)^2 = 1$ donc $\sin(\alpha)^2 = \frac{9}{25}$ reponse 2 famose donc $\sin(\alpha) = \frac{3}{5}$ or $|\sin(\alpha)| = -\frac{3}{5}$ reponse 4 justes rejeté cor >0 $cos(x \le 0)$ reponse 1 $cos(x) = \sqrt{1 - sin^2(x)}$ func reponse 2 $\sin \alpha = \frac{\mathcal{I}1}{2a} \rightarrow \cos \alpha \leq 0$ car cos(a) <0 donc famal. $cola = -VI - sin^2(x)^T$ $\cos(\alpha) = -\sqrt{1 - (\frac{21}{29})^2} = -\sqrt{\frac{400}{841}}$ reponse 3 juste = - 20 reponse 4 sausse. co(a) >0 -> report 1 force $cos(a) = \sqrt{1 - sin^2(sc)} = \sqrt{\frac{15}{16}}$ reponse 4 just