1. Solve the trigonometric equation.

$$
\begin{equation*}
3 \tan (x)^{2}-1=0 \tag{1}
\end{equation*}
$$

2. Solve the trigonometric equation.

$$
\begin{equation*}
2 \sin (x)^{2}+3 \sin (x)+1=0 \tag{2}
\end{equation*}
$$

3. By drawing find intersection points of functions

$$
\begin{equation*}
y_{1}=\cos (x) \quad \text { and } \quad y_{2}=\frac{1}{2} x \tag{3}
\end{equation*}
$$

4. Simplify trigonometric equation and solve it.

$$
\begin{equation*}
\frac{1}{1+\cos (x)}+\frac{1}{1-\cos (x)}=4 \tag{4}
\end{equation*}
$$

