PRACTICAL PART:

1. Solve the equation $3 - 6\cos x = 0$.

2. Solve the equation $\tan^2 - 1 = 2$.

3. Solve the equation $\sin^2 x - \sin x = \sin x + 3$.

4. Solve the equation $-2\cos^2 x + 1 = \sin x$.

5. Solve the equation $\sin x = \cos x$ on the interval $[0, 2\pi)$.

6. Solve the equation $\sin x - 1 = \cos x$ on the interval $[0, 2\pi)$.

7. Solve the equation $\tan^2 x + 2\tan x = 3$ on the interval $(-\pi/2, \pi/2)$.

8. Solve the equation $6\sin x - 2 = \sin x$ on the interval $[0, 2\pi)$.