

**General Solutions to Trigonometric Equations** – in book: Section 5.7 p. 325

Solve each equation for  $0^\circ \leq x \leq 360^\circ$ .

1.  $2\sin^2 x - 5\sin x + 2 = 0$

2.  $\sin^2 x - 2\sin x - 3 = 0$

3.  $2\sin x + 1 = 0$

4.  $2\tan x \cos x + 2\cos x = \tan x + 1$

5.  $2\sin^2 x - 1 = 0$

6.  $\cos x = 3\cos x - 2$

7.  $\tan x = \sin x$

8.  $\cos x \sin x = 0$

9.  $2\cos x - 1 = 0$

10.  $4\sin^2 x - 4\sin x + 1 = 0$

11.  $\sqrt{2}\sin x - 1 = 0$

12.  $\tan^2 x + \tan x = 0$

13.  $2\cos x - \sqrt{3} = 0$

14.  $\tan^2 x - \sqrt{3}\tan x = 0$