***Trig equations of the form trig (a + bx) = c***

|  | *Range for x* |
|---|---|
| sin 2x =0.5 | 0,360 |
| $cos\ (x + 30) = \frac{1}{\sqrt{2}}$ | 0,360 |
| $\tan(2x - 50) = -0.7$ | -180,180 |
| $2 \sin 3x - 1 = 0$ | **-90,90** |
| $2 \cos(3x - 1) = 0$ | **0,π** |
| $3 \tan \left(\frac{x}{2}\right) + 3 = 0$ | **−2π, 2π** |
| $\cos^2(2x) - 1 = 0$ | -180,180 |
| $\tan(2x + 45) = \sqrt{3}$ | -90,90 |
| $5\cos^2(3x) = 3(1 + \sin 3x)$ | 0,180 |