SOLVE ALL EQUATIONS IN THE INTERVAL $[0, 2\pi)$ EXCEPT AS NOTED.

1. $2\cos(x) + 8 = 7$

2. $\tan(x) + 1 = 0$ SOLVE IN THE INTERVAL $(-\infty, \infty)$

3. $4\sin^2(x) + 2 = 5$ Note: $\sqrt{\frac{3}{4}} = \frac{\sqrt{3}}{\sqrt{4}} = \frac{\sqrt{3}}{2}$ (Just in case you were wondering.)

4. $(\cos(x) + 1)(\tan(x) - 1) = 0$

5. $5\tan(x) + 1.6 = -11.4$

6. $3\sec(x) + 10 = 4$

7. $\sin(x) = 0$ SOLVE IN THE INTERVAL $(-\infty, \infty)$

8. $2\sin(x)\tan(x) + \tan(x) = 0$

9. $4.3\sin(x) + 2.1 = 3.9$ SOLVE IN THE INTERVAL $(-\infty, \infty)$

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10. $3\cos^2(2x) + 1 = 4$

11. $\csc(\frac{1}{2}x) + 1 = 0$