Pythagorean Identities:

$$\sin^2 x + \cos^2 x = 1$$

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Find the general solutions to the following equations

$$\cos(x)+1=2\sin^2(x)$$

$$2\cos^2(x)+\sin(x)=1$$

Find the general solutions to the following equations

$$2\cos^2(u)=1+\cos(u)$$

$$2\sin^2(u)+\cos(u)=1$$

Find the general solutions to the following equations

$$2\cos^2(u)-\sin(u)=1$$

Find all the solutions to the given equations in interval [0, 2π).

$$2\sin^2(u)+\cos(u)=2$$

$$2\cos^2(u)+\sin(u)=1$$