Solving Trigonometric Equations Using Identities

Name _____

Date _____ Period _____

Solve the following equations for θ on $[0,2\pi)$

$$\cos^2\theta + \sin\theta + 1 = 0$$

Solve the following equations for θ on $[0,2\pi)$

$$\cos(2\theta) - 3\sin\theta + 1 = 0$$

Solve the following equations for θ on $[0,2\pi)$

$$\cos(2\theta) + 5\cos\theta + 3 = 0$$

Solve the following equations for θ on $[0,2\pi)$

$$\sin(2\theta) = \cos\theta$$

Solve the following equations for θ on $[0,2\pi)$

$$\sin(2\theta)\sin\theta - \cos\theta = 0$$

Solve the following equations for θ on $[0,2\pi)$

$$2\cot^2(2\theta) - 3\csc(2\theta) + 3 = 0$$

Solve the following equations for θ on $[0,2\pi)$

$$\sin\theta + \cos\theta = 1$$