PRECAL TOPICS Name_____

Solving Trig Equations WS #2

Date_____ Period____

Solve each equation for $0 \le \theta < 2\pi$.

1) $-1 = 5 - 3\csc\ \theta$

2) $7 = 5 - 4\sin\ \theta$

3) $2 + \frac{1}{3} \cdot \cot\ \theta = \frac{6 - \sqrt{3}}{3}$

4) $2\sqrt{2} - 5 = -5 - 4\sin\ \theta$

5) $\sqrt{2} + 2 = 2 + \sec\theta$

6) $5 - 2\csc\theta = 3 - \csc\theta$

Solve each equation for $0 \le \theta < 360$.

7) $-4\sqrt{2} - 3 = -3 - 8\sin(\theta + 30)$

8) $5 - 3\cos -3\theta = 5 + \cos -3\theta$

9) $-3 + \tan(2\theta + 300) = -5 + 3\tan(2\theta + 300)$

10) $-5 + 10\sin(-3\theta + 45) = -9 + 2\sin(-3\theta + 45)$