Assignment

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

1) $-3\cos \theta = -2\cos \theta$

2) $2\sin \theta = \dfrac{\sqrt{3}}{2} + \sin \theta$

3) $2\cos \theta = -\dfrac{1}{2} + \cos \theta$

4) $2\sin \theta = \dfrac{1}{2} + \sin \theta$

5) $-\dfrac{\sqrt{3}}{3} + 2\tan \theta = 3\tan \theta$

6) $-2\cos \theta = \dfrac{\sqrt{2}}{2} - 3\cos \theta$

7) $2\cos \theta = -\dfrac{\sqrt{3}}{2} + \cos \theta$

8) $1 + 2\sin \theta = 3\sin \theta$

9) $-\dfrac{\sqrt{3}}{2} - 2\sin \theta = -\sin \theta$

10) $-2\tan \theta = 1 - 3\tan \theta$

Answers to Assignment (ID: 1)

1) $\{90, 270\}$ 2) $\{60, 120\}$ 3) $\{120, 240\}$ 4) $\{30, 150\}$
5) $\{150, 330\}$ 6) $\{45, 315\}$ 7) $\{150, 210\}$ 8) $\{90\}$
9) $\{240, 300\}$ 10) $\{45, 225\}$