Solving Trig Equations Review

Solve each of the following trigonometric equations for $0 \le \theta \le 2\pi$:

Try Trig #1 $\cos\theta = \dfrac{-1}{\sqrt{2}}$

Try Trig #2 $5\sin\theta + 1 = 3\sin\theta$

Try Trig #3 $8 + 4\cot\theta = 10$

Try Trig #4 $\sin 3\theta = \dfrac{-\sqrt{3}}{2}$

Try Trig #5 $(2\cos\theta + \sqrt{3})\sin\theta = 0$

Try Trig #6 $3\tan^2\theta - 2\tan\theta = 1$

Try Trig #7 $\cot\theta\csc^2\theta = 2\cot\theta$