**Solving Trigonometric Equations - Extra Practice**

**Solve the following equations;** $0\leq θ\leq 2π$**.**

**a)** $sin \left(3θ\right)=-\frac{\sqrt{3}}{2}$ **b)** $2cos\left(2θ\right)+sinθ+1=0$ **c)** $sinθ\left(2cosθ+\sqrt{2}\right)=0$

**d)** $cos\left(2θ\right)=-\frac{1}{2}$ **e)** $tanθsecθ-3tanθ=0$ **f)** $cosθ+1=\frac{2}{3}sin^{2}θ$

Answers: a) $\frac{4π}{9}$, $\frac{5π}{9}$, $\frac{10π}{9}$, $\frac{11π}{9}$, $\frac{16π}{9}$, $\frac{17π}{9}$ b) 5.435, 3.990, $\frac{π}{2}$ c) $0$, $π$, $2π$, $\frac{3π}{4}$, $\frac{5π}{4}$ d) $\frac{π}{3}, \frac{2π}{3}$, $\frac{4π}{3}$, $\frac{5π}{3}$ e)$0$, $π$, $2π,$ 1.231, 5.052 f) $\frac{2π}{3}$, $\frac{4π}{3}$, $π$