4 Radians : Solving trigonometric equations

1. Solve $\sin x = -\frac{1}{2}$ where $0 \leq x \leq 2\pi$ [1]

2. Solve $\cot x = \sqrt{3}$ where $-\pi \leq x \leq \pi$ [1]

3. Solve $cosec^2 x + \cot x - 6 = 1$ for $0 \leq x \leq 2\pi$ [1]