

MHF 4UI UNIT 6

Trigonometric Functions II

Day 4 - Solving Trig Equations I

Example 1: Solve the following equations, $0 \leq \theta \leq 2\pi$

a) $\sin \theta = 0.82$

b) $\cot \theta = 1.502$

$$c) \cos \theta = -\frac{\sqrt{3}}{2}$$

$$d) 4\sin^2\theta + 5\sin\theta = 6$$

e) $3\csc^2 x + 20\csc x - 3 = 4$, for $0 \leq x \leq \pi$