

## Pre-Calculus 12

1. Solve the following equations algebraically

a)  $\cos x = -\frac{1}{\sqrt{2}}$  where  $0 \leq x < 2\pi$

$$\cos x = \frac{1}{\sqrt{2}}$$

$$r.f. = \frac{\pi}{4}$$

$$\cos \frac{\pi}{4} = \frac{1}{\sqrt{2}}$$

b)  $\sqrt{3} \tan x = 1$  where  $0 \leq x < 2\pi$

c)  $\cos x = \sqrt{3} - \cos x$  where  $0 \leq x < 2\pi$

d)  $2 \sin^2 x = 1$  where  $0 \leq x < 2\pi$

$$\sin(x)^2 = \frac{1}{2}$$