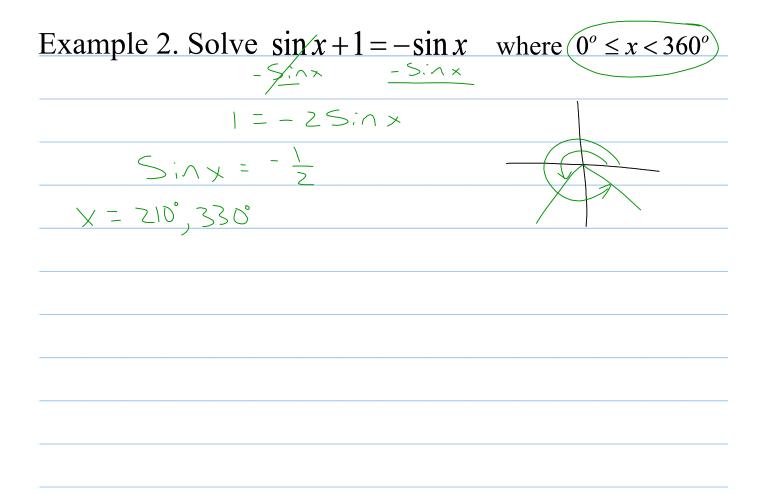
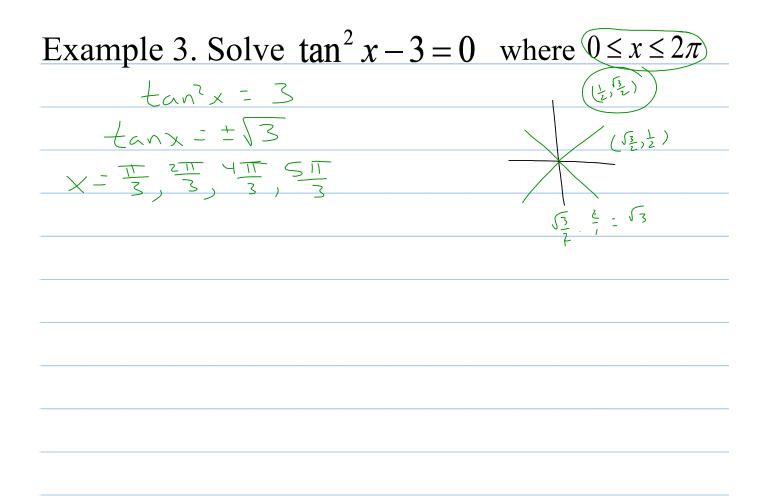
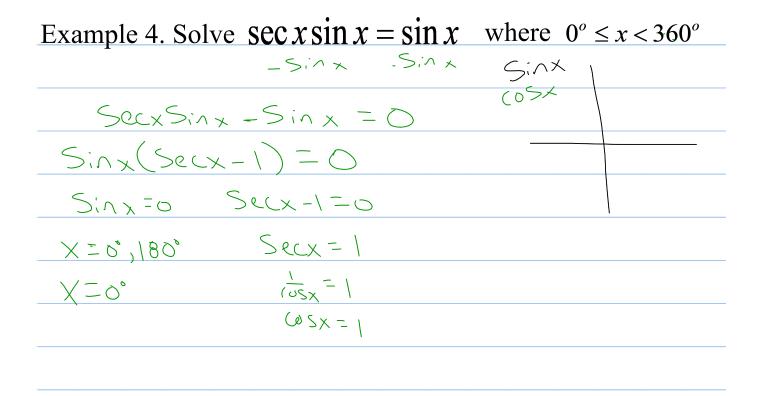
Section 5.3 Solving Trigonometric Equations	
Example 1. Solve $1 - 2\cos x = 0$	where $0 \le x < 2\pi$
-2(0) = -1	
$\rightarrow$ (oSx = $\frac{1}{2}$	TT3
$X = \frac{1}{3}, \frac{5\pi}{3}$	ST
	3
	-







Example 5. Solve the following on the interval  $[0,2\pi)$ .

a) 
$$2\cos^{2} x + \cos x - 1 = 0$$
  
 $2(\cos x)^{2} + \cos x - 1 = 0$   
 $(2\cos x - 1)(\cos x + 1) = 0$   
 $2\cos x - 1 = 0 \quad (0 + 1) = 0$   
 $(\cos x - \frac{1}{2} \quad (0 + x - 1) - \frac{1}{2} \quad (0 + x - 1) - \frac{1}{2} \quad (0 + x - 1) = 0$   
 $2(1 - \sin^{2} x) + 3\sin x - 3 = 0$   
 $2(1 - \sin^{2} x) + 3\sin x - 3 = 0$   
 $2(1 - \sin^{2} x) + 3\sin x - 3 = 0$   
 $2(1 - \sin^{2} x) + 3\sin x - 3 = 0$   
 $2(-2\sin^{2} x + 3\sin x - 3 = 0)$   
 $(-2\sin^{2} x + 3\sin x - 3 = 0)$   
 $(-2\sin^{2} x + 3\sin x - 3 = 0)$   
 $(-2\sin^{2} x + 3\sin x - 3 = 0)$   
 $(-2\sin^{2} x + 3\sin x - 3 = 0)$   
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 $(-2\sin^{2} x + 3\sin x - 3 = 0)$   
 $(-2\sin^{2} x + 3\sin x - 3 = 0)$   
 $(-2\sin^{2} x + 3\sin x - 3 = 0)$   
 $(-2\sin^{2} x + 3\sin^{2} x - 1)$   
 $(-2\sin^{2} x + 2\sin^{2} x - 1)$   
 $(-3\sin^{2} x - 1)$   

