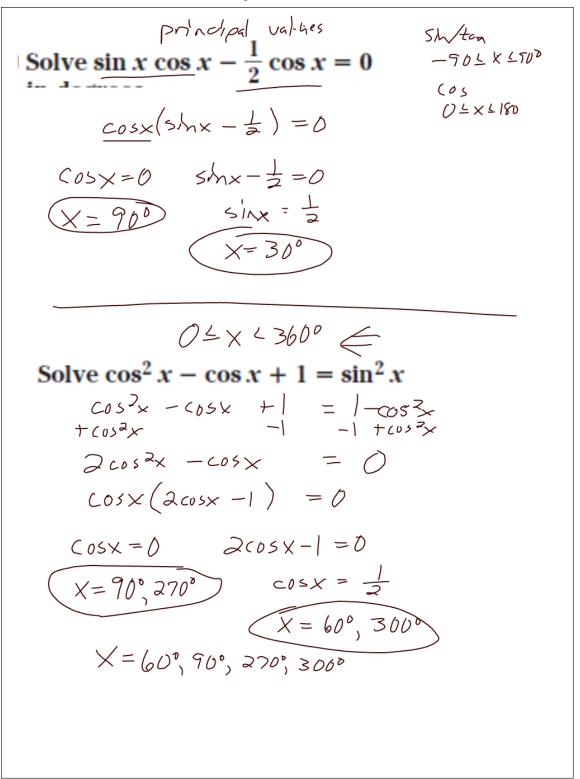
$$Sin x = \frac{\sqrt{3}}{2} \qquad tan x = 1 \qquad tan x = -\sqrt{3} \qquad x = 45^{\circ}, 225^{\circ} \qquad x = 1/20^{\circ}, 300^{\circ} \qquad x = 180^{\circ} \qquad x = 360^{\circ} \qquad x < 360^{\circ} \qquad x <$$

March 12 2013 7th.gwb - 2/3 - Tue Mar 12 2013 13:50:54



March 12 2013 7th.gwb - 3/3 - Tue Mar 12 2013 14:07:57

$$0 \le x < 360^{\circ}$$
Solve 2 sec<sup>2</sup> x - tan<sup>4</sup> x = -1  
 $2(tan^{3}x + 1) - tan^{4}x = -1$   
 $2(tan^{3}x + 1) - tan^{4}x = -1$   
 $2tan^{2}x + 2 - tan^{4}x = -1$   
 $+1$   
 $-\frac{tan^{4}x + 2tan^{2}x + 3}{+1} = 0$   
 $tan^{4}x - 2txn^{2}x - 3 = 0$   
 $(tan^{2}x + 1) (tan^{2}x - 3) = 0$   
 $tan^{2}x - 1$   
 $tan^{2}x = 3$   
 $tan^{2}x - 3 = 0$   
 $x = 60^{\circ}, 240^{\circ}, 120^{\circ}, 300^{\circ}$   
Subscripts  $x = \frac{\sqrt{3}}{2}$   
 $(asx - \sqrt{3})$   
 $x = 30^{\circ}, 330^{\circ}$   
 $p. 459 - 460$   
 $17 - 21, 23 - 27, 25$