Test Review!!!

1. Verify: $\csc x \sec x = \cot x + \tan x$

2. Find the exact value of cos(x - y) if $tan x = \frac{3}{4}$, $sec y = -\frac{3}{2}$ and x and y are in Quadrant III.

3. Find the exact value of $sin(x - 270^\circ)$.

4. Find the exact value of the cos 195°.

- If $\csc \theta = -\frac{5}{4}$, and θ is in Quad III, find the exact value of:
 - $\sin 2\theta$
- b. $\cos 2\theta$
- $\tan 2\theta$
- d. $\sin \frac{\theta}{2}$ e. $\cos \frac{\theta}{2}$

6. Solve $3\sec^2\theta + 5\sec\theta - 2 = 0$ for all values of θ in the interval $0^{\circ} \le \theta < 360^{\circ}$.

7. Solve $\cos^2 \theta - \cos \theta + 1 = \sin^2 \theta$ for all values of θ in the interval $0^{\circ} \le \theta < 360^{\circ}$.