Precalculus: Homework
1/2-1/5

due: : Wednesday: read pp. 471-472

1. pp. 475-477 / #5, 8, 57, 58
2. Simplify completely:
   a. $2sin9xcos9x$ b. $1-2sin^2 7x$ c. $\frac{2tan3y}{1-tan^2 3y}$
3. If $tan\theta = \frac{3}{4}$ and θ is a positive acute angle, find:
   a. $sin2\theta$ b. $cos2\theta$ c. $tan2\theta$

Thursday: read pp. 473-475

1. pg. 475 / #31, 33, 35
2. Simplify completely:
   a. $\sqrt{\frac{1+cos5x}{2}}$ b. $\sqrt{\frac{1-cos4x}{1+cos4x}}$ c. $\sqrt{\frac{1-cos10r}{2}}$
3. If $sec\theta = \frac{5}{4}$ and θ is an angle in the fourth quadrant, find:
   a. $sin\frac{1}{2}\theta$ b. $cos\frac{1}{2}\theta$ c. $tan\frac{1}{2}\theta$

on: Friday: test