

Precalculus
Ch.5 Test Review #3

Name: _____
Date: _____ Period: _____

1. Given that angle A is in Q III with $\sin A = -\frac{40}{41}$, angle B is in Q IV with $\tan B = -\frac{5}{4}$, angle C is in Q II with $\csc C = \frac{13}{12}$, find each of the following. Assume each angle is in the interval $[0, 2\pi)$
- a) $\cos(A + B)$ b) $\sin 2B$

c) $\cos \frac{C}{2}$ d) $\tan 2C$

e) $\sin \frac{1}{2}A$ f) $\sin(B - C)$

g) $\tan \frac{1}{2}B$ h) $\cos 2A$

2. Find all solutions in the interval $[0, 2\pi)$ for:

a) $\cos 2x = 11 \cos x + 5$ b) $3 \sin x = \cos 2x + 1$