PRE CALCULUS
SECTION 5.2
Practice Worksheet

NAME_____DATE_____PER_____ASSG_____

SHOW ALL THE WORK. DO NOT OMIT STEPS.

I.   Find each of the following if: $\sin x_1 = \dfrac{4}{5}$, $\sin x_2 = -\dfrac{12}{13}$,

$0 < x_1 < \dfrac{\pi}{2}$, and $\dfrac{3\pi}{2} < x_2 < 2\pi$.

1) $\sin(x_1 - x_2)$

2) $\cos(x_1 + x_2)$

3) $\sin(x_1 + x_2)$

4) $\cos(x_1 - x_2)$

II   Find each of the following if: $\cos s = -\dfrac{3}{5}$, $\cos t = -\dfrac{15}{17}$,

$\dfrac{\pi}{2} < s < \pi$, and $\pi < t < \dfrac{3\pi}{2}$.

5) $\sin(s - t)$

6) $\tan(s + t)$

7) $\cos(s + t)$

8) $\sin(s + t)$

9) $\cos(s - t)$ 10) $\tan(s - t)$

1)	
2)	
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	
11)	
12)	
13)	
14)	
15)	
16)	

III. **Find the exact answer to each of the following. All answers in simplest form.**

11) $\sin 105°$

12) $\cos(-75°)$

13) $\tan 75°$

14) $\sin \dfrac{13\pi}{2}$

15) $\cos(-\dfrac{\pi}{12})$

16) $cos \dfrac{17\pi}{12}$

And Pg. 668 (4,12,20,24,32,38,42,52,58,60,62)