9.4 Sum and Difference Properties (2) **Name:_____**

Angles A and B are in standard position. Let $\sin A = \frac{2}{3}, \cos A > 0$ *and* $\tan B = \frac{4}{3}, \cos B < 0$.

Draw angles A and B in the appropriate quadrants and find the following:

1. $\cos(A-B)$
2. $\sin(A-B)$
3. $\tan(A-B)$

Angles A and B are in standard position. Let $\sin A = \frac{1}{3}, \cos A < 0$ *and* $\tan B = -\frac{2}{3}, \cos B > 0$.

Draw angles A and B in the appropriate quadrants and find the following:

4. $\sin(A+B)$
5. $\cos(A+B)$
6. $\tan(A+B)$

Find the exact value. Don't make it harder than it needs to be!

7. $\cos 15^o$

8. $\tan 15^o$

9. $\cot 15^o$

10. $\sec 15^o$

11. $\sin 75^o$

12. $\cot 75^o$

13. $\tan 75^o$

14. $\csc 75^o$

15. $\sec 75^o$