

Name: _____

5.4 & 5.5(part 1) Practice Problems

1) Find the exact value: $\cos 195^\circ$

2) Find the exact value: $\sin \frac{13\pi}{12}$

3) Find $\cos(a - b)$, given that $\sin a = \frac{8}{17}$ with $\frac{\pi}{2} < a < \pi$ and $\cos b = \frac{1}{2}$ with $0 < b < \frac{\pi}{2}$

4) Find the exact value: $\tan(-15^\circ)$

5) Find the exact value: $\sin(75^\circ)$

6) Given $\cos a = \frac{1}{2}$ with $0 < a < \frac{\pi}{2}$, find $\sin 2a$ and $\tan \frac{a}{2}$.

7) Find the exact value: $\cos \frac{\pi}{2} \cos \frac{\pi}{4} + \sin \frac{\pi}{2} \sin \frac{\pi}{4}$

8) Simplify: $\tan(x - 2\pi)$