For each of the following, find the measure of the angle based on the sum or difference of an angle found on your unit circle. Example: 15° = 60° - 45°. Keep the proper format (radians vs. degrees).

1. 105° $150° - 45°$
    $60° + 45$

6. 255° $225 + 30°$
   $300° - 45°$

2. -15° $210° - 225°$ $30° - 45°$ 7. $\frac{\pi}{12}$ $\frac{4\pi}{12} - \frac{8\pi}{12} = \boxed{\frac{\pi}{3} - \frac{\pi}{4}}$
    $45° - 60°$

3. 75° $30° + 45°$

8. $\frac{7\pi}{12}$ $\frac{4\pi}{12} + \frac{3\pi}{12} = \boxed{\frac{\pi}{3} + \frac{\pi}{4}}$

$\boxed{\frac{3\pi}{4} - \frac{\pi}{6}}$

4. 285° $315 - 30°$

9. $\frac{19\pi}{12}$ $\frac{10\pi}{12} + \frac{9\pi}{12} = \boxed{\frac{5\pi}{6} + \frac{3\pi}{4}}$

5. 195° $150° + 45°$
    $330° - 135°$

10. $-\frac{\pi}{12}$ $\frac{3\pi}{12} - \frac{4\pi}{12} = \boxed{\frac{\pi}{4} - \frac{\pi}{3}}$

Sum and difference formulas

$$\sin(u \pm v) = \sin u \cos v \pm \cos u \sin v$$

$$\cos(u \pm v) = \cos u \cos v \mp \sin u \sin v$$

$$\tan(u \pm v) = \frac{\tan u \pm \tan v}{1 \mp \tan u \tan v}$$