Pre-Calculus CP **Special Angles #2** **Name** Key

Find the exact value of each. DO NOT USE A CALCULATOR!

1. $\cos \frac{5\pi}{6} = \frac{-\sqrt{3}}{2}$

2. $\tan 180° = 0$

(-1,0)

3. $\sin 120° = \frac{\sqrt{3}}{2}$

4. $\cot 225° = 1$

5. $\csc -60° = \frac{-2\sqrt{3}/3}{}$

$\frac{1}{\sin}$ $\frac{-2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$ neg

6. $\cos -\frac{\pi}{2} = 0$

(0,-1)

7. $\sec \frac{7\pi}{4} = \sqrt{2}$

$\frac{1}{\cos}$ (+) $\frac{2}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{2\sqrt{2}}{2}$

8. $\sin \frac{\pi}{6} = \frac{1}{2}$

9. $\csc 240° = \frac{-2\sqrt{3}/3}{}$

$\frac{1}{\sin}$ $\frac{2}{\sqrt{3}}$

240 - 60 = $4\pi/3$ → Q3 neg

8. $\cot \frac{10\pi}{3} = \frac{\sqrt{3}}{3}$

-1, -

11. $\sin \frac{11\pi}{6} + \cos \frac{7\pi}{4} = \frac{-1+\sqrt{2}}{2}$

Q4 neg + Q4 pos

$-\frac{1}{2} + \frac{\sqrt{2}}{2}$

12. $\tan \frac{4\pi}{3} + \sin \pi = \sqrt{3}$

$\sqrt{3} + 0$

-1,0

13. $\sec 210° \tan -135° =$ _____

↖ Q3

$\frac{7\pi}{6}$

$\frac{1}{\cos}$

Q3 neg $-\frac{2}{\sqrt{3}} \cdot \frac{1}{} = \frac{2\sqrt{3}}{3}$

14. $5\cot \frac{4\pi}{3} + \sec \pi =$ _____

(-1,0)

$5\left(\frac{\sqrt{3}}{3}\right) + -1$

$\frac{5\sqrt{3}}{3} - \frac{3}{3} = \frac{5\sqrt{3}-3}{3}$