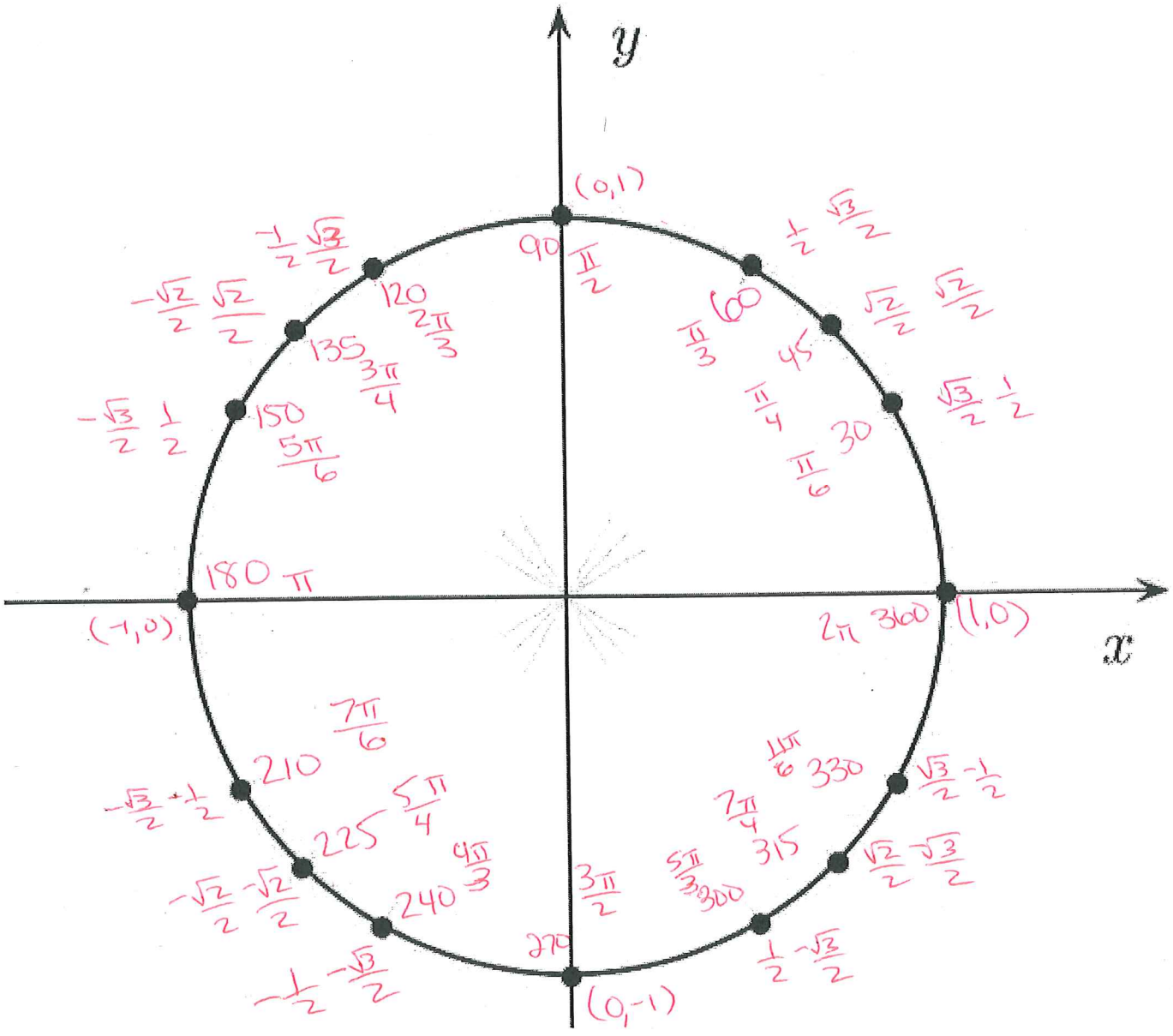
Acc Geo 13.3/13.6 Review Name Key

Label all angles in degrees & radians. Label the coordinates for each point on the unit circle.



Find the exact value of each trigonometric function.

1. $\tan(-510°)$ $\frac{\sqrt{3}}{3}$

2. $\csc \frac{11\pi}{4}$ $\sqrt{2}$

3. $\cos 45°$ $\cos 270 = 0$

4. $\sin(-90°)$ -1

5. $\cot 1665°$ 1

6. $\cos 330°$ $\cos \frac{4\pi}{3} = -\frac{1}{2}$

7. $\cot 30°$ $\sqrt{3}$

8. $\tan 315°$ -1

10. $\sin 5\pi$ $\cot(-\pi) = \text{undefined}$

11. $\csc \frac{\pi}{4}$ $\sqrt{2}$

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

13. $\sin \frac{7\pi}{3}$ $\tan \frac{5\pi}{3} = -\sqrt{3}$

14. $\cos 45°$ $\frac{\sqrt{2}}{2}$

15. $\sin 210°$ $-1/2$

16. $\sin 330°$ $-1/2$

17. $\cos 330°$ $\frac{\sqrt{3}}{2}$

18. $\cos(-60°)$ $1/2$

19. $\sin(-390°)$ $-1/2$

20. $\sin 5\pi$ 0

21. $\cos 3\pi$ -1

22. $\sin \frac{5\pi}{2}$ 1

23. $\sin \frac{7\pi}{3}$ $\frac{\sqrt{3}}{2}$

24. $\cos\left(-\frac{7\pi}{3}\right)$ $1/2$

25. $\cos\left(-\frac{5\pi}{6}\right)$ $-\frac{\sqrt{3}}{2}$

26. $\cos 30° + \cos 60°$ $\frac{\sqrt{3}}{2} + \frac{1}{2} = \frac{\sqrt{3}+1}{2}$

27. $5(\sin 45°)(\cos 45°)$ $5\left(\frac{\sqrt{2}}{2}\right)\left(\frac{\sqrt{2}}{2}\right) = \frac{10}{4} = \frac{5}{2}$

28. $\frac{\sin 120° + \cos 240°}{3}$ (210) $\frac{-\frac{1}{2} + -\frac{1}{2}}{3} = -\frac{1}{3}$

Suppose θ is an angle in standard position whose terminal side is in the given quadrant. For each function, find the exact values of the remaining five trigonometric functions of θ.

29. $\sin\theta = \frac{4}{5}$, Quadrant II

$\cos\theta = -3/5$ $\csc\theta = 5/4$

$\tan\theta = -\frac{4}{3}$ $\sec\theta = -5/3$

$\cot\theta = -3/4$

30. $\tan\theta = -\frac{12}{5}$, Quadrant IV

$\sin\theta = -\frac{12}{13}$ $\csc\theta = -\frac{13}{12}$

$\cos\theta = \frac{5}{13}$ $\sec\theta = \frac{13}{5}$

$\cot\theta = -5/12$