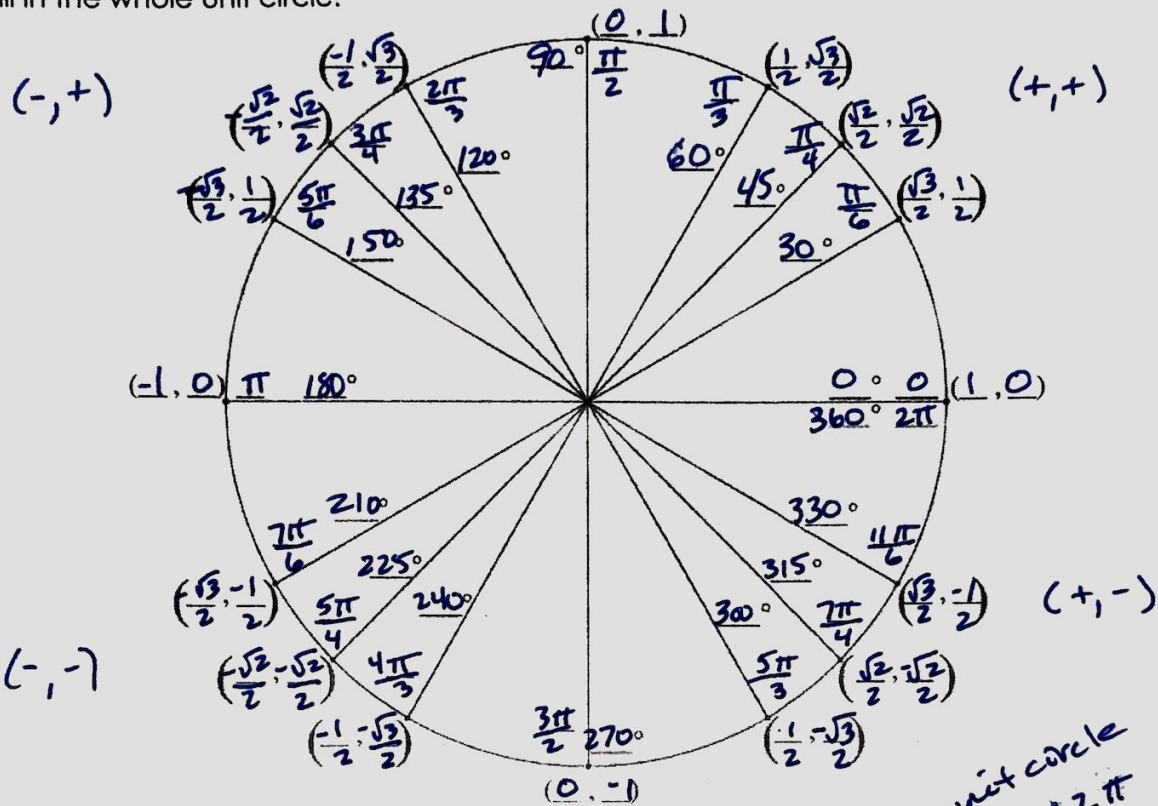
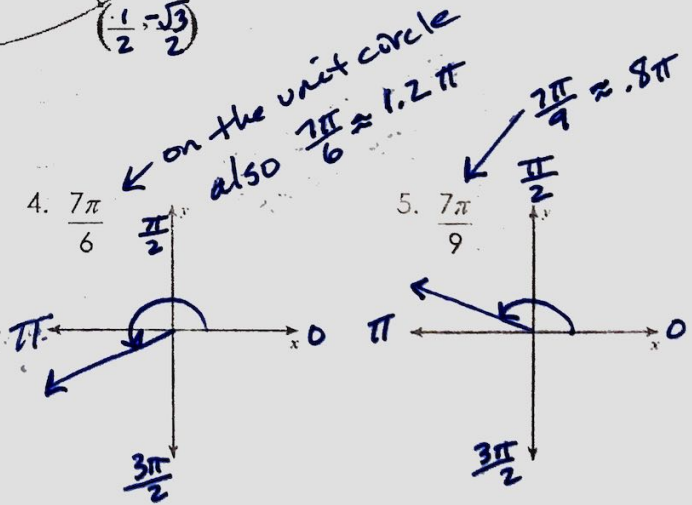
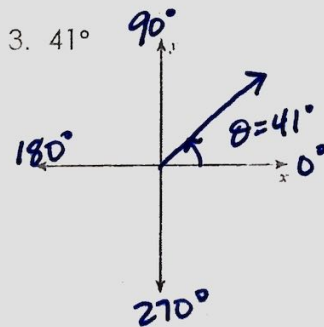
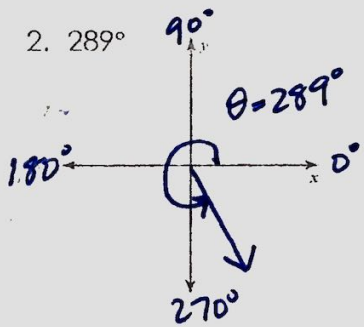


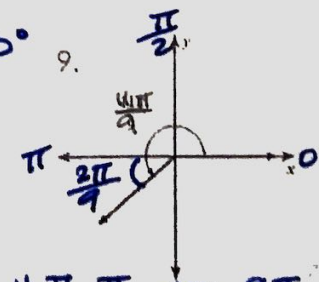
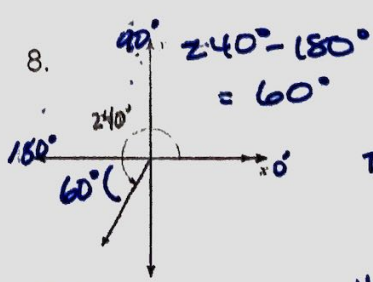
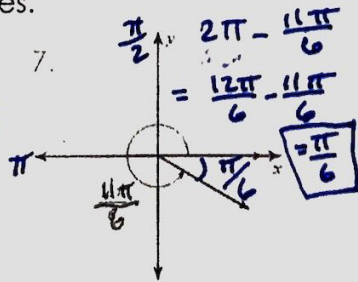
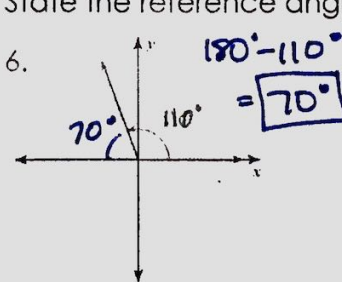
1. Fill in the whole unit circle.



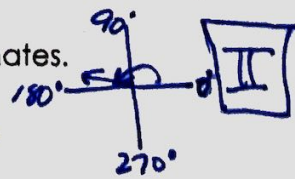
Sketch the angle in the correct quadrant.



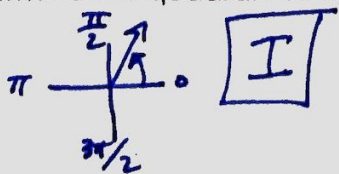
State the reference angles.



10. Determine the quadrant in which 172° terminates.



11. Determine the quadrant in which $\frac{2\pi}{7} \approx .3\pi$



$$D \rightarrow R$$

$$\frac{\pi}{180}$$

$$R \rightarrow D$$

$$\frac{180}{\pi}$$

Convert each degree measure into radians.

$$12. 75^\circ \cdot \frac{\pi}{180} = \boxed{\frac{5\pi}{12}}$$

$$13. 320^\circ \cdot \frac{\pi}{180} = \boxed{\frac{16\pi}{9}}$$

$$14. 10^\circ \cdot \frac{\pi}{180} = \boxed{\frac{\pi}{18}}$$

$$15. 85^\circ \cdot \frac{\pi}{180} = \boxed{\frac{17\pi}{36}}$$

Convert each radian measure into degrees.

$$16. \frac{\pi}{9} \cdot \frac{180}{\pi} = \boxed{20^\circ}$$

$$17. \frac{5\pi}{6} \cdot \frac{180}{\pi} = \boxed{150^\circ}$$

$$18. \frac{55\pi}{36} \cdot \frac{180}{\pi} = \boxed{275^\circ}$$

$$19. \frac{7\pi}{12} \cdot \frac{180}{\pi} = \boxed{105^\circ}$$

Find the exact value of each trigonometric function.

$$20. \cos 315^\circ = \boxed{\frac{\sqrt{2}}{2}}$$

$$21. \sin 60^\circ = \boxed{\frac{\sqrt{3}}{2}}$$

$$22. \tan \frac{\pi}{2} = \frac{1}{0} = \boxed{\text{undefined}}$$

$$23. \cos \pi = \boxed{-1}$$

$$24. \tan \frac{5\pi}{4} = \frac{-\frac{\sqrt{2}}{2}}{-\frac{\sqrt{2}}{2}} = \boxed{1}$$

$$25. \sin 330^\circ = \boxed{-\frac{1}{2}}$$

$$26. \cos \frac{3\pi}{4} = \boxed{-\frac{\sqrt{2}}{2}}$$

$$27. \tan \frac{2\pi}{3} = \frac{\frac{\sqrt{3}}{2}}{-\frac{1}{2}} \pi \text{ rad}$$

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

$$28. \cos 0^\circ = \boxed{1}$$

$$29. \sin \frac{7\pi}{6} = \boxed{-\frac{1}{2}}$$

$$30. \cos \frac{7\pi}{6} = \boxed{-\frac{\sqrt{3}}{2}}$$

$$31. \tan \frac{7\pi}{6} = \frac{-\frac{1}{2}}{-\frac{\sqrt{3}}{2}} \pi \text{ rad}$$

$$= \frac{1}{\sqrt{3}} \cdot \frac{2}{2} = \frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$$

$$= \boxed{\frac{\sqrt{3}}{3}}$$

$$32. \sin 90^\circ = \boxed{1}$$

$$33. \cos 240^\circ = \boxed{-\frac{1}{2}}$$

