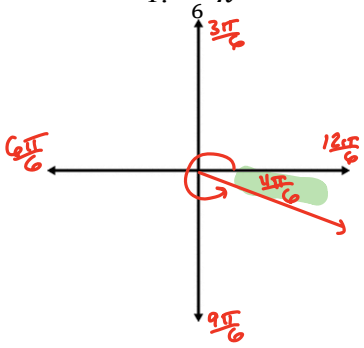
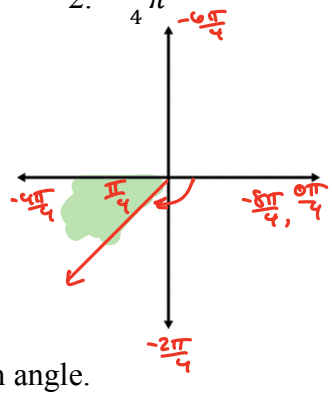
18.2 – Angles & Radians

Draw an angle with the given measure in standard position. Label the distance from the terminal side to the closest x-axis.

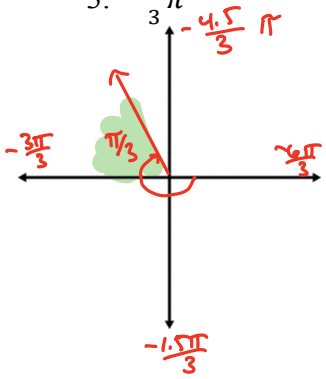
1. $\frac{11}{6}\pi$



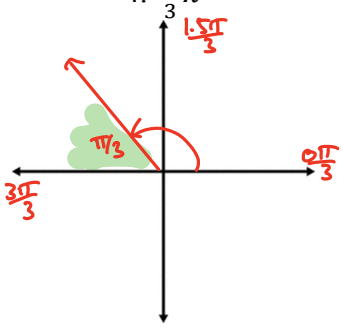
2. $-\frac{3}{4}\pi$



3. $-\frac{4}{3}\pi$

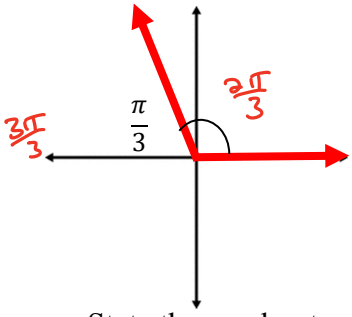


4. $\frac{2}{3}\pi$

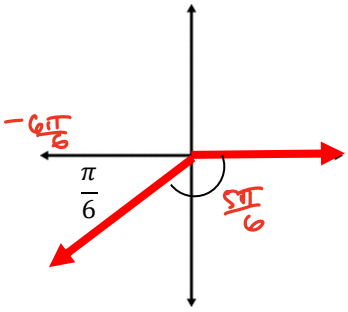


Find the measure of each angle.

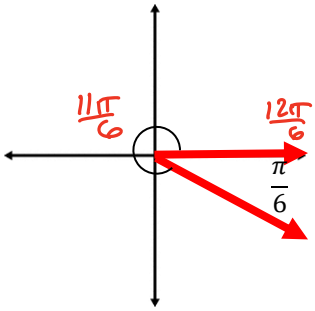
5.



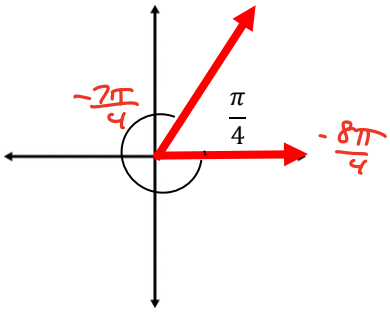
6.



7.

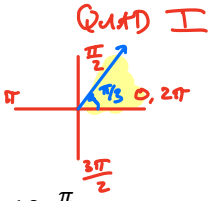


8.

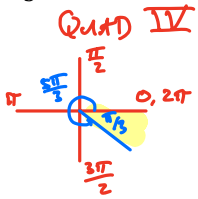


State the quadrant or part of axis in which the angle terminates.

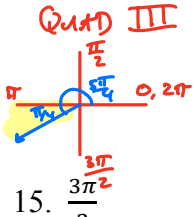
9. $\frac{\pi}{3}$



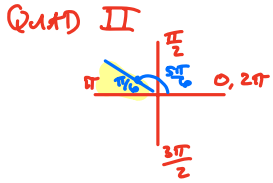
10. $\frac{5\pi}{3}$



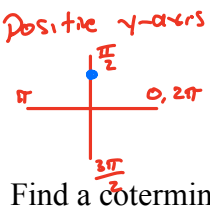
11. $\frac{5\pi}{4}$



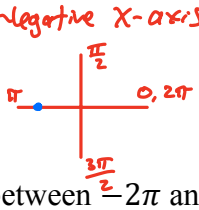
12. $\frac{5\pi}{6}$



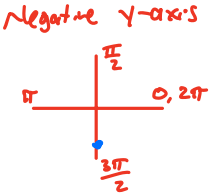
13. $\frac{\pi}{2}$



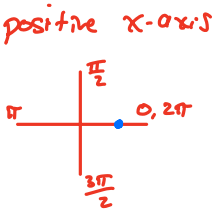
14. π



15. $\frac{3\pi}{2}$



16. 2π



Find a coterminal angle between -2π and 2π.

17. $-\frac{\pi}{6}$

$-\frac{\pi}{6} + \frac{12\pi}{6} = \frac{11\pi}{6}$ ✓ 2π

18. $\frac{-4\pi}{3}$

$-\frac{4\pi}{3} + \frac{6\pi}{3} = \frac{2\pi}{3}$ ✓ 2π

19. $\frac{7\pi}{4}$

$\frac{7\pi}{4} - \frac{8\pi}{4} = -\frac{\pi}{4}$ ✓ 2π

20. $\frac{5\pi}{4}$

$\frac{5\pi}{4} - \frac{8\pi}{4} = -\frac{3\pi}{4}$ ✓ 2π

Convert to radians in terms of π

21. $225^\circ \cdot \frac{\pi}{180^\circ} = \frac{5\pi}{4}$

22. $45^\circ \cdot \frac{\pi}{180^\circ} = \frac{\pi}{4}$

Convert to degrees

23. $-\frac{5\pi}{3} \cdot \frac{180^\circ}{\pi} = -300^\circ$

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