

34. $\sin t = -\frac{3\sqrt{13}}{13}$ $\cos t = -\frac{2\sqrt{13}}{13}$ $\tan t = \frac{3}{2}$ $\csc t = -\frac{\sqrt{13}}{3}$ $\sec t = -\frac{\sqrt{13}}{2}$ $\cot t = \frac{2}{3}$

35. $\sin t = \frac{5\sqrt{26}}{26}$ $\cos t = -\frac{\sqrt{26}}{26}$ $\tan t = -5$ $\csc t = \frac{\sqrt{26}}{5}$ $\sec t = -\sqrt{26}$ $\cot t = -\frac{1}{5}$

36. $\sin t = \frac{\sqrt{15}}{5}$ $\cos t = \frac{\sqrt{10}}{5}$ $\tan t = \frac{\sqrt{6}}{2}$ $\csc t = \frac{\sqrt{15}}{3}$ $\sec t = \frac{\sqrt{10}}{2}$ $\cot t = \frac{\sqrt{6}}{3}$

37. $\sin \frac{-7\pi}{6} = -\frac{1}{2}$ $\cos \frac{-7\pi}{6} = -\frac{\sqrt{3}}{2}$ $\tan \frac{-7\pi}{6} = \frac{\sqrt{3}}{3}$ $\csc \frac{-7\pi}{6} = 2$ $\sec \frac{-7\pi}{6} = -\frac{2\sqrt{3}}{3}$ $\cot \frac{-7\pi}{6} = -\sqrt{3}$

38. $\sin \frac{7\pi}{4} = -\frac{\sqrt{2}}{2}$ $\cos \frac{7\pi}{4} = \frac{\sqrt{2}}{2}$ $\tan \frac{7\pi}{4} = -1$ $\csc \frac{7\pi}{4} = -\sqrt{2}$ $\sec \frac{7\pi}{4} = \sqrt{2}$ $\cot \frac{7\pi}{4} = -1$

39. $\sin t = \frac{1}{\csc t}$ 40. $\cos t = \frac{1}{\sec t}$ $\tan t = \frac{\sin t}{\cos t}$ $\cot t = \frac{\cos t}{\sin t}$

41. $\sin t = -\frac{\sqrt{3}}{2}$ $\cos t = \frac{1}{2}$ $\tan t = -\sqrt{3}$ $\csc t = -\frac{2\sqrt{3}}{3}$ $\sec t = 2$ $\cot t = -\frac{\sqrt{3}}{3}$

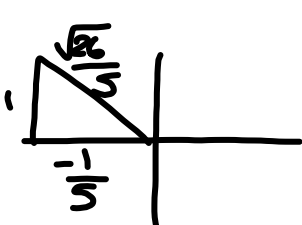
42. $\sin t = 1$ $\cos t = 0$ $\tan t = \text{und.}$ $\csc t = 1$ $\sec t = \text{und.}$ $\cot t = 0$

43. $\sin t = -\frac{2}{3}$ $\cos t = \frac{\sqrt{5}}{3}$ $\tan t = -\frac{2\sqrt{5}}{5}$ $\csc t = -\frac{3}{2}$ $\sec t = -\frac{3\sqrt{5}}{5}$ $\cot t = -\frac{\sqrt{5}}{2}$

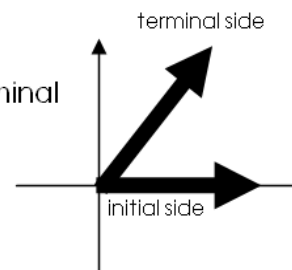
44. $\sin t = \frac{12}{13}$ $\cos t = -\frac{5}{13}$ $\tan t = -\frac{12}{5}$ $\csc t = \frac{13}{12}$ $\sec t = -\frac{13}{5}$ $\cot t = -\frac{5}{12}$

45. $\sin t = \frac{1}{8}$ $\cos t = -\frac{3\sqrt{7}}{8}$ $\tan t = -\frac{\sqrt{7}}{21}$ $\csc t = 8$ $\sec t = -\frac{8\sqrt{7}}{21}$ $\cot t = -3\sqrt{7}$

Handwritten notes: $\tan t (\cos t - \csc t)$
 $= \tan t \cos t - \tan t \csc t$
 $= \frac{\sin t}{\cos t} \cdot \frac{\cos t}{1} - \frac{\sin t}{\csc t} \cdot \frac{1}{\csc t}$



Dec 4-2:15 PM

Initial side $\rightarrow$ Positive x-axisCoterminal Angles $\rightarrow$ Angles that have the same initial and terminal SidesTo find coterminal angles $\rightarrow$ Add or subtract multiples of 2π 

Dec 3-8:31 AM

Find a positive and a negative angle coterminal with the given angle.

1. $\frac{5\pi}{6}$ $2\pi: \frac{12\pi}{6}$

Pos: $\frac{5\pi}{6} + \frac{12\pi}{6} = \frac{17\pi}{6}$

Neg: $\frac{5\pi}{6} - \frac{12\pi}{6} = -\frac{7\pi}{6}$

3. $-\frac{7\pi}{4}$ $2\pi: \frac{8\pi}{4}$

Pos: $-\frac{7\pi}{4} + \frac{8\pi}{4} = \frac{\pi}{4}$

Neg: $-\frac{7\pi}{4} - \frac{8\pi}{4} = -\frac{15\pi}{4}$

2. $-\frac{4\pi}{3}$ $2\pi: \frac{6\pi}{3}$

Pos: $-\frac{4\pi}{3} + \frac{6\pi}{3} = \frac{2\pi}{3}$

Neg: $-\frac{4\pi}{3} - \frac{6\pi}{3} = -\frac{10\pi}{3}$

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

Pos: $\frac{\pi}{2} + \frac{4\pi}{2} = \frac{5\pi}{2}$

Neg: $\frac{\pi}{2} - \frac{4\pi}{2} = -\frac{3\pi}{2}$

Dec 3-8:32 AM

Complementary Angles $\rightarrow$ 2 angles whose sum is $\frac{\pi}{2}$ $\frac{\pi}{2} - \underline{\hspace{1cm}}$

Supplementary Angles $\rightarrow$ 2 angles whose sum is π $\pi - \underline{\hspace{1cm}}$

For each of the following, find the complement and the supplement.

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

Comp. $\frac{6\pi}{12} - \frac{\pi}{12} = \frac{5\pi}{12}$

$(\frac{\pi}{2} - \frac{\pi}{12})$

Supp. $\frac{12\pi}{12} - \frac{\pi}{12} = \frac{11\pi}{12}$

$(\pi - \frac{\pi}{12})$

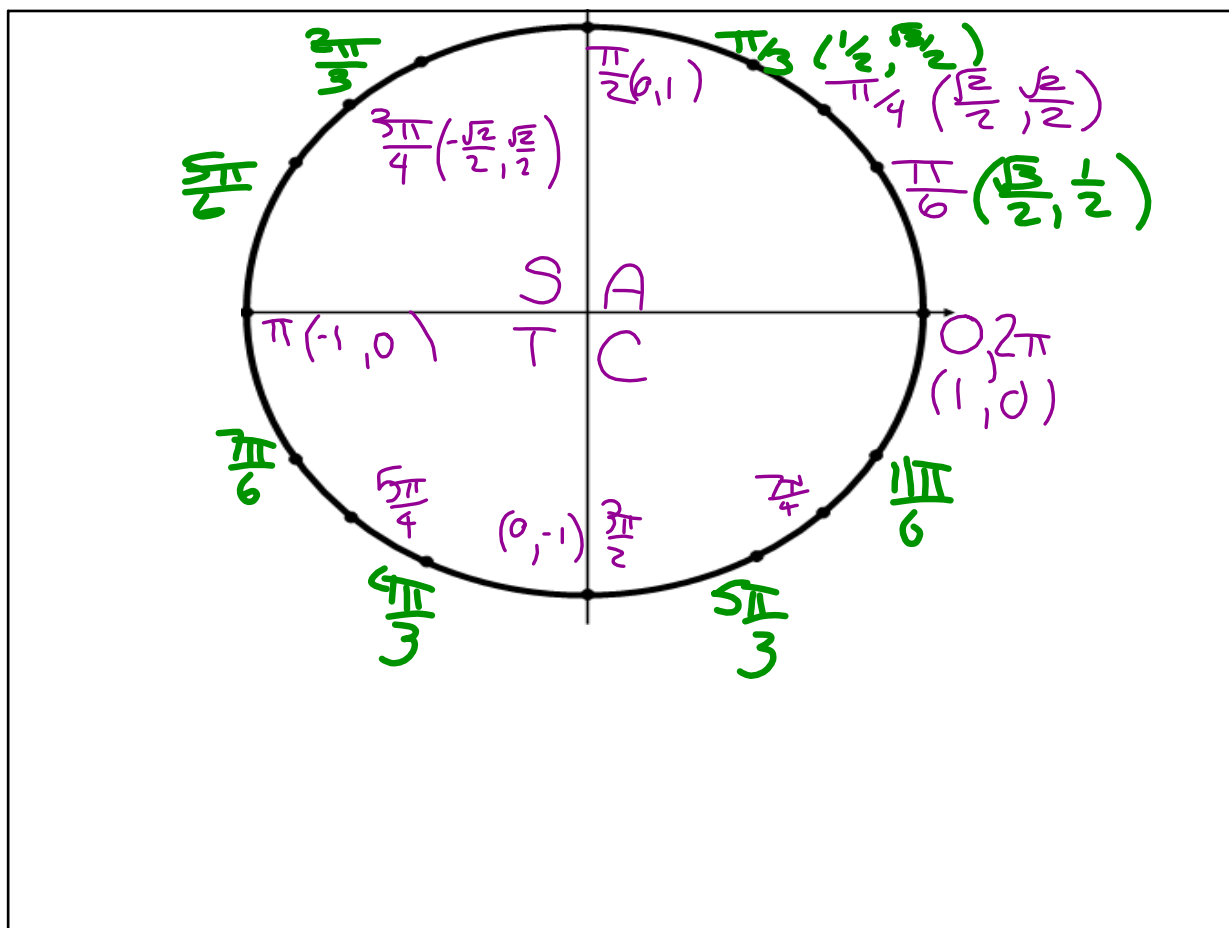
6. $\frac{2\pi}{15}$ $\frac{\pi}{2} - \underline{\hspace{1cm}}$ $\pi - \underline{\hspace{1cm}}$

$\frac{15\pi}{30} - \frac{4\pi}{30} = \frac{11\pi}{30}$

$\frac{15\pi}{15} - \frac{2\pi}{15} = \frac{13\pi}{15}$

$\frac{\pi}{2} - \frac{2\pi}{15}$

Dec 3-8:33 AM



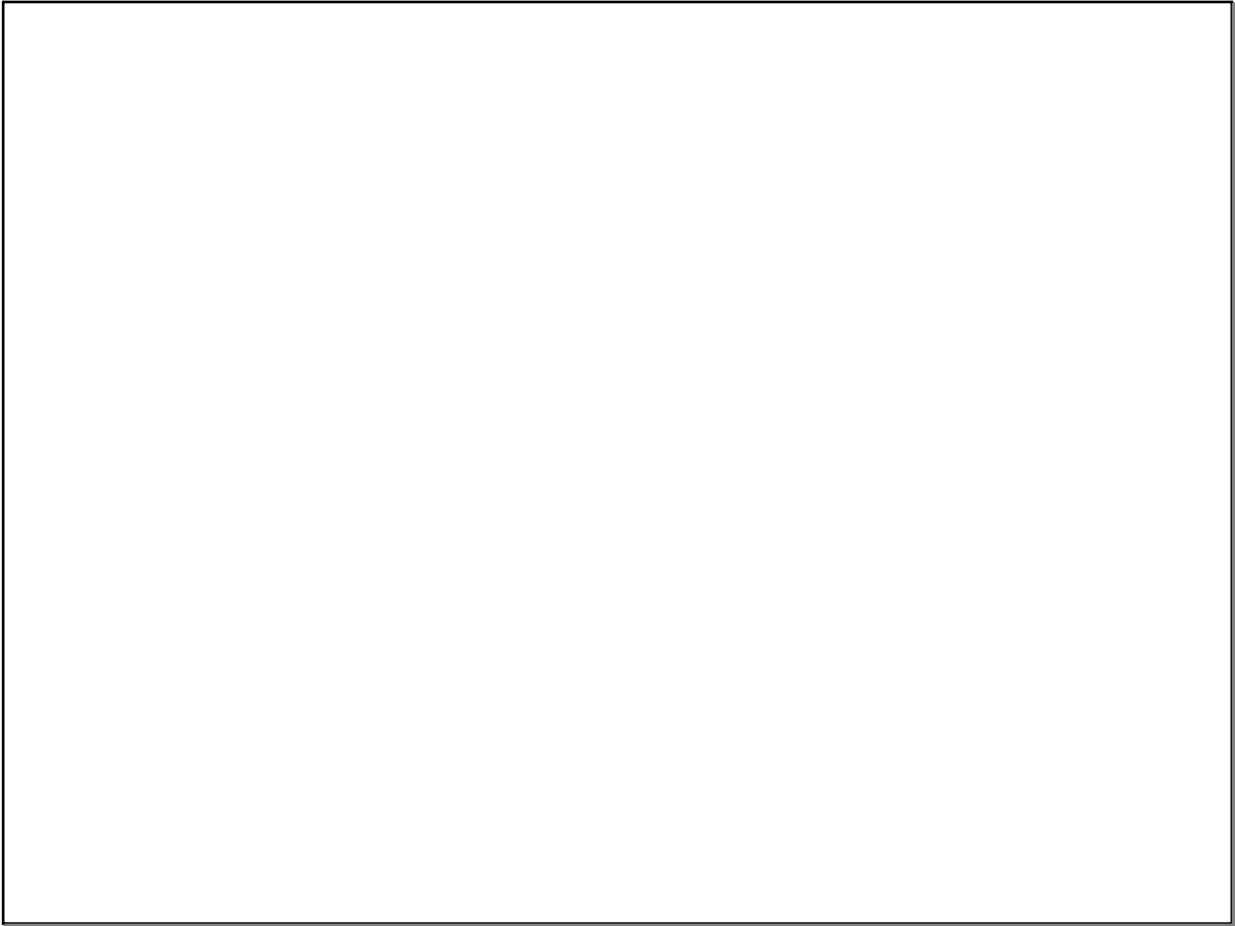
Dec 10-7:11 AM

QUIZ



Coterminal Angles
Complementary & Supplementary Angles

Dec 3-8:29 AM



Jan 7-7:46 AM