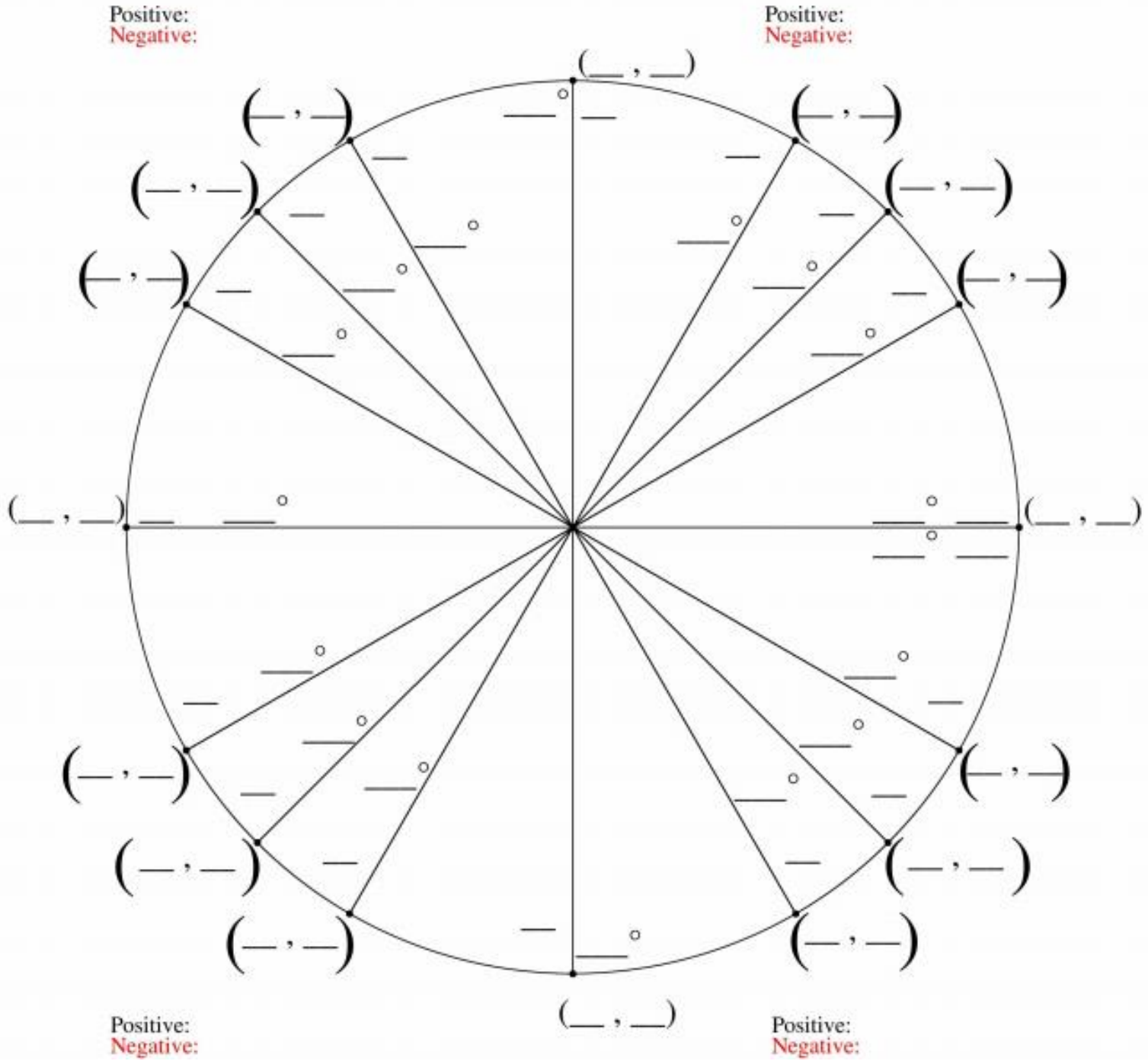


Complete the following without looking at a Unit Circle:



Find the exact value of each of the following values:

1. $\cot \frac{3\pi}{2}$

2. $\sec 240^\circ$

3. $\cos\left(-\frac{4\pi}{3}\right)$

4. $\cot 30^\circ$

5. $\cos \frac{3\pi}{4}$

6. $\sin 225^\circ$

7. $\tan \frac{13\pi}{6}$

8. $\cos(60^\circ)$

9. $\tan \frac{5\pi}{3}$

10. $\sec 120^\circ$

11. $\tan \frac{\pi}{2}$

12. $\sin(-270^\circ)$

13. $\csc\left(-\frac{3\pi}{4}\right)$

14. $\sec 330^\circ$

15. $\cot(-\pi)$

16. $\csc(-225^\circ)$

17. $\cot 0^\circ$

18. $\csc 495^\circ$

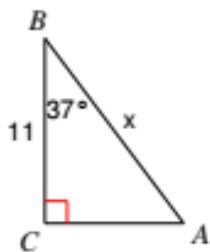
19. $\csc \frac{5\pi}{6}$

20. $\cos 0^\circ$

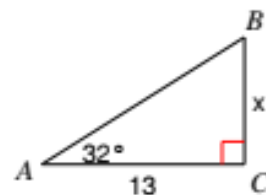
21. $\sec \pi$

For the following triangles solve for x, leave answers in trig form:

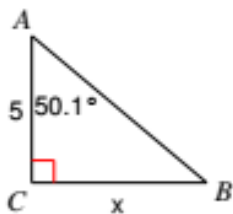
9)



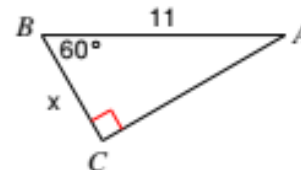
10)



11)



12)



Find the measures of a positive angle and a negative angle that are coterminal with each given angle.

4. $\theta = 425^\circ$

5. $\theta = -316^\circ$

6. $\theta = -800^\circ$

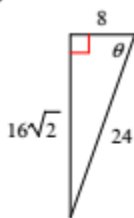
7. $\theta = 281^\circ$

8. $\theta = -4^\circ$

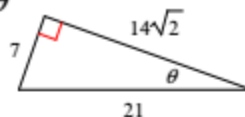
9. $\theta = 743^\circ$

Find the value each trig function, leave in simplified fraction form:

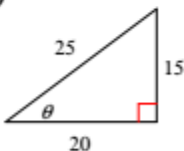
5) $\csc \theta$



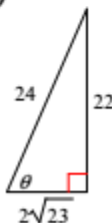
6) $\cos \theta$



7) $\cot \theta$



8) $\tan \theta$



Convert each measure from degrees to radians or from radians to degrees.

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

2. 215°

3. $-\frac{29\pi}{18}$

4. -180°

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

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

7. 400°

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

9. 35°

Find the exact value of the six trigonometric functions (sin,cos,tan,csc,sec,cot):

16. 150°

17. -225°

18. -300°

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

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

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

Use the unit circle to find the exact value of each trigonometric function.

10. $\cos \frac{2\pi}{3}$

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

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

13. $\sin 315^\circ$

14. $\cos 225^\circ$

15. $\tan 60^\circ$
