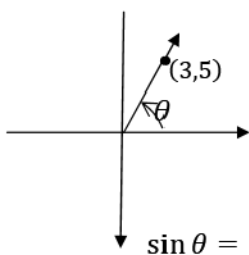


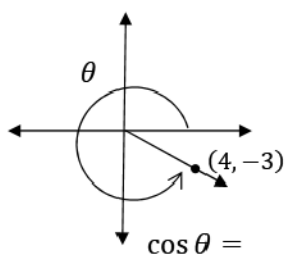
Trig #3

Pre Calculus

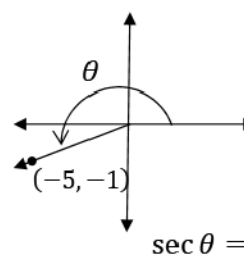
1.



2.



3.



From the following information, find the required trig function:

4. $\cos \theta = -\frac{5}{13}$
 θ is in Quad II
 $\sin \theta =$

5. $\tan \theta = \frac{5}{4}$
 $\sin \theta = -\frac{5}{\sqrt{41}}$
 $\cos \theta =$

6. $\csc \theta = -\frac{\sqrt{7}}{2}$
 $90^\circ \leq \theta \leq 270^\circ$
 $\tan \theta =$

Find the measure of the reference angle for each of the following:

- | | | | |
|-----------------|-----------------|-----------------|------------------|
| 7. 173° | 8. 57° | 9. -38° | 10. 180° |
| 11. 340° | 12. 265° | 13. 410° | 14. -200° |

Without using a calculator or table, find the exact value of each of the following:

- | | | | |
|---------------------|----------------------|------------------------|----------------------|
| 15. $\cos 90^\circ$ | 16. $\cos 150^\circ$ | 17. $\cos(-45)^\circ$ | 18. $\csc 120^\circ$ |
| 19. $\tan 60^\circ$ | 20. $\tan 300^\circ$ | 21. $\tan 540^\circ$ | 22. $\cot 330^\circ$ |
| 23. $\sin 45^\circ$ | 24. $\sin 225^\circ$ | 25. $\sin(-210)^\circ$ | 26. $\sec 135^\circ$ |

Change from degrees to radians.

- | | | | | |
|-----------------|-----------------|-----------------|-----------------|---------------------------|
| 27. 120° | 28. 270° | 29. 225° | 30. 330° | 31. $22\frac{1}{2}^\circ$ |
|-----------------|-----------------|-----------------|-----------------|---------------------------|

Change from radians to degrees.

- | | | | | | |
|----------------------|----------------------|---------------------|----------------------|-----------------------|-----------------------|
| 32. $\frac{3\pi}{4}$ | 33. $\frac{7\pi}{6}$ | 34. $\frac{\pi}{2}$ | 35. $\frac{4\pi}{3}$ | 36. $-\frac{5\pi}{6}$ | 37. $\frac{7\pi}{12}$ |
|----------------------|----------------------|---------------------|----------------------|-----------------------|-----------------------|

State, in radians, the measure of the reference angle of each of the following.

- | | | | |
|----------------------|----------------------|-----------------------|------------------------|
| 38. $\frac{7\pi}{4}$ | 39. $\frac{5\pi}{3}$ | 40. $-\frac{5\pi}{6}$ | 41. $\frac{11\pi}{12}$ |
|----------------------|----------------------|-----------------------|------------------------|

Without using a calculator or table, find the exact value of each of the following.

- | | | | |
|---------------------------|----------------------------|---------------------------|---------------------------|
| 42. $\sin \frac{5\pi}{4}$ | 43. $\cos \frac{11\pi}{6}$ | 44. $\tan \frac{3\pi}{4}$ | 45. $\sin \frac{\pi}{2}$ |
| 46. $\cos \pi$ | 47. $\sin(-2\pi)$ | 48. $\sec \frac{2\pi}{3}$ | 49. $\tan \frac{5\pi}{6}$ |