

For each of the following, find **ALL** angles that meet the criterion. Give exact radian measures.

1. a. $\cos x = 1$

b. $\sin x = 1$

c. $\cos x = 0$

3. a. $\tan x = \text{und}$

b. $\tan x = 0$

c. $\csc x = 1$

5. a. $\csc x = -1$

b. $\sec x = -1$

c. $\cot x = \text{und}$

2. a. $\sin x = 0$

b. $\cos x = -1$

c. $\sin x = -1$

4. a. $\sec x = 1$

b. $\csc x = \text{und}$

c. $\sec x = \text{und}$

For each of the following, draw a diagram and show the approximate location for **ALL** angles that meet the criterion. Give exact angle measures or radians when appropriate.

6. $\cos x = \frac{\sqrt{3}}{2}$

7. $\sin \theta = 0.25$

8. $\tan x = -\sqrt{3}$

9. $\cos \theta = \frac{3}{4}$

10. $\csc x = \frac{2\sqrt{3}}{3}$

11. $\sin \theta = -1$

12. $\cot \theta = -5$

13. $\tan \theta = 2$

14. $\sec x = -\sqrt{2}$

15. $\sec \theta = \frac{5}{4}$