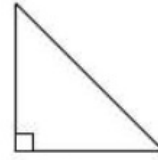


Reference triangles and Quadrantal Angles – Degree measure only

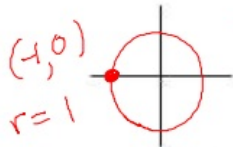
Label all of the *sides* and *angles* of the special triangles



Given an angle - determine the reference angle, then draw the reference triangle.

Label the sides of each triangle, then evaluate each trigonometric function.

1. $\theta = 180^\circ$

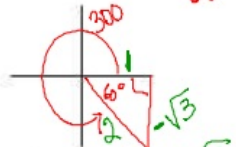


1a. $\cos(180^\circ) = \frac{-1}{1} = -1$

1b. $\cot(180^\circ) = \frac{-1}{0} = \text{undef.}$



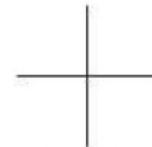
2. $\theta = 300^\circ$ $\theta' = 60^\circ$



2a. $\sin(300^\circ) = -\frac{\sqrt{3}}{2}$

2b. $\sec(300^\circ) = \frac{2}{1} = 2$

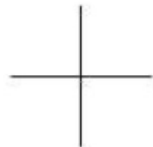
3. $\theta = 90^\circ$



3a. $\tan(90^\circ) =$

3b. $\csc(90^\circ) =$

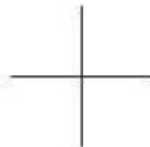
4. $\theta = 30^\circ$ $\theta' =$



4a. $\cos(30^\circ) =$

4b. $\sec(30^\circ) =$

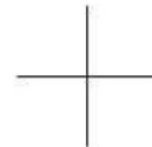
5. $\theta = 120^\circ$ $\theta' =$



5a. $\tan(120^\circ) =$

5b. $\csc(120^\circ) =$

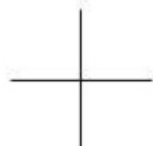
6. $\theta = 0^\circ$



6a. $\sin(0^\circ) =$

6b. $\sec(0^\circ) =$

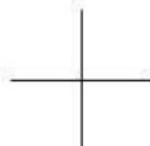
7. $\theta = 270^\circ$



7a. $\cot(270^\circ) =$

7b. $\sin(270^\circ) =$

8. $\theta = 240^\circ$ $\theta' =$



8a. $\sin(240^\circ) =$

8b. $\cos(240^\circ) =$

9. $\theta = 135^\circ$ $\theta' =$



9a. $\cos(135^\circ) =$

9b. $\cot(135^\circ) =$

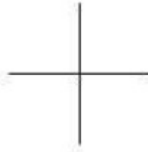
10. $\theta = -90^\circ$



10a. $\sin(-90^\circ) =$

10b. $\cot(-90^\circ) =$

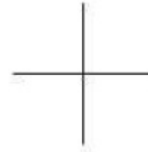
11. $\theta = -150^\circ$ $\theta' =$



11a. $\tan(-150^\circ) =$

11b. $\sec(-150^\circ) =$

12. $\theta = 180^\circ$



12a. $\sin(180^\circ) =$

12b. $\csc(180^\circ) =$

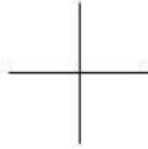
13. $\theta = 240^\circ$ $\theta' =$



13a. $\sin(240^\circ) =$

13b. $\sec(240^\circ) =$

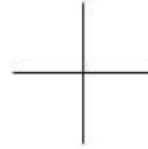
14. $\theta = 90^\circ$



14a. $\cos(90^\circ) =$

14b. $\sin(90^\circ) =$

15. $\theta = -225^\circ$ $\theta' =$



15a. $\cot(-225^\circ) =$

15b. $\sec(-225^\circ) =$

Don't forget

Also complete . . . page 739: ~~2-18 even~~ **1-17 odd**