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1. Find the exact value of sin 60°.
2. Find the exact value of cos 45°.
3. Find the exact value of tan 30°.
4. Find the exact value of cot 60°.
5. Find the exact value of sec 45°.
Find the exact value of csc 30°.
7.Evaluate sin(180^\circ - \theta) if cos \theta = 1/2.
8. Evaluate cos(90^{\circ} + \theta) if sin \theta = 3/5.
9. Evaluate tan(270^{\circ} - \theta) if \cot \theta = 7/4.
10. Evaluate \cot(360^\circ - \theta) if \sec \theta = 2.
11.Evaluate sec(180° - \theta) if csc \theta = 4/3.
12. Evaluate \csc(270^\circ + \theta) if \tan \theta = -2/3.
13. If sin \theta = -1/2, and \pi/2 < \theta < \pi, find the exact value of cos(\pi - \theta).
14. If \cos \theta = 4/5, and \pi < \theta < 3\pi/2, find the exact value of \sin(2\pi - \theta).
15. If \tan \theta = 3/4, and \pi/2 < \theta < \pi, find the exact value of \cot(\pi - \theta).
16.If \cot \theta = -7/24, and 3\pi/2 < \theta < 2\pi, find the exact value of \sec(2\pi - \theta).
17. If sec \theta = 5/2, and 0 < \theta < \pi/2, find the exact value of csc(\pi/2 - \theta).
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18.If \csc \theta = -5/3, and \pi < \theta < 3\pi/2, find the exact value of \tan(2\pi - \theta).
19. Find all solutions of the equation \sin \theta = 1/2 on the interval [0_2 2\pi).
20. Find all solutions of the equation \cos \theta = -1/2 on the interval (0, 0)
21. Find all solutions of the equation \tan \theta = \sqrt{3} on the tree [0, 2\pi).
22. Find all solutions of the equation \cot \theta = -10 interval (0, 2\pi).
23. Find all solutions of the equation (3 + 1)^2 = -2 on the interval (1, 2\pi).
24. Find all solutions of the quation csc \theta = 2 on the interval [0, 2\pi).
25. Find the loost of the hypoten se of crust triangle with legs of length 3 and 4.
26. Find the length of the shorter log of a right triangle with hypotenuse of length 13 and longer
leg of length 5.
27. Find the length of the longer leg of a right triangle with hypotenuse of length 26 and shorter
leg of length 10.
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28. Find the measure of an angle θ in a right triangle with legs of length 5 and 12.

29. Find the measure of an angle θ in a right triangle with legs of length 7 and 24.

30. Find the measure of an angle θ in a right triangle with hypotenuse of length 10 and longer leg of length 8.