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Worksheet: Trigonometry

1. The value of cos(105 degrees) + cos(15 degrees) is:
2. If A, B, C are angles of a triangle, then sin(A+B) is equal to:
3. Domain of sin-1(x)
4. The number of solutions of tan x = sec x in [0, 2pi] is
5. Express 2 sin 3x cos x as a sum/difference.
6. What is the range of the function f(x) = 3 sin x - 1?
7. Value of tan-1(x) + cot-1(x)
8. The general solution for cos x = 0 is:
9. What is the value of tan^-1(tan(5pi/4))?
10. The range of f(x) = cos-1(x^2-1) for x in [-1, 1] is
11. If sin(theta) + cos(theta) = 1, then sin(theta)cos(theta) is:
12. If tan-1(x) = y, then range of y is
13. The value of cos(36 degrees) is:
14. The value of cos (pi/2 - x) is:
15. If 2 $\cos^2$ x = 1 + cos y, then y is equal to:
16. The value of sin(2sin-1(x)) is
17. If sin-1(x) + cos-1(y) = pi, then
18. If cos(x) = 1/2, then cos(2x) is:
19. What is the value of tan(225 degrees)?
20. Principal value of tan-1(-1)