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Function	Graph	Period	Domain	Range	X-intercepts	Y-intercept	Asymptotes
$y = \tan(x)$			The set of real numbers except $x = \frac{\pi}{2} + n\pi$ where n is an odd integer.			$y = 0$	
$y = \cot(x)$							$x = n\pi$ where n is an integer.
$y = \sec(x)$				None			
$y = \csc(x)$				The set of real numbers greater than or equal to 1 or less than or equal to -1.			

Now by substituting this formula we get,

$$\sin\left(\frac{1}{2} 2 \sin^{-1}\left(\pm \sqrt{\frac{1-\frac{4}{5}}{2}}\right)\right)$$

$$= \sin\left(\sin^{-1}\left(\pm \sqrt{\frac{1}{5}}\right)\right)$$

$$= \sin\left(\sin^{-1}\left(\pm \frac{1}{\sqrt{5}}\right)\right)$$

As we know that

$$\sin(\sin^{-1}x) = x \text{ as } x \in [-1, 1]$$

$$= \pm \frac{1}{\sqrt{5}}$$

Hence, $\sin\left(\frac{1}{2} \cos^{-1}\left(\frac{4}{5}\right)\right) = \pm \frac{1}{\sqrt{5}}$

(iv) Given $\sin\left(2 \tan^{-1}\frac{2}{3}\right) + \cos\left(\tan^{-1}\sqrt{3}\right)$

We know that

$$\sin^{-1}\left(\frac{2x}{1+x^2}\right) = 2 \tan^{-1}(x),$$

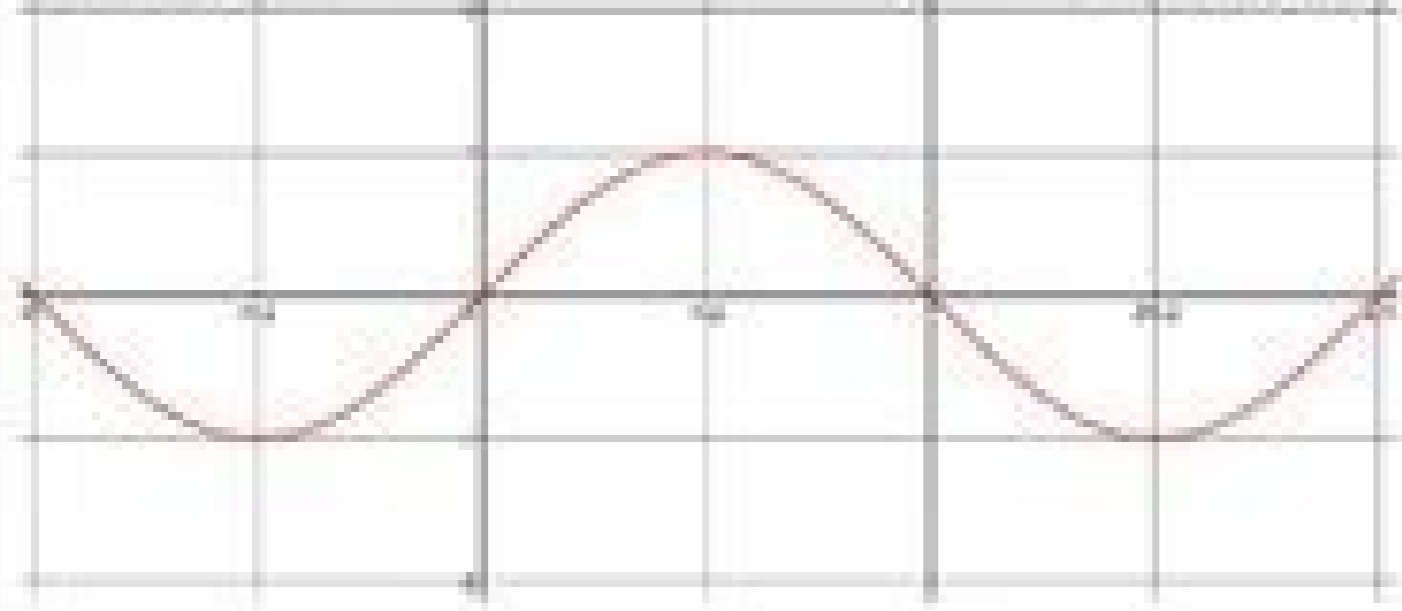
$$\cos^{-1}\left(\frac{1-x^2}{1+x^2}\right) = \tan^{-1}(x),$$

Now by substituting these formulae we get,

$$= \sin\left(\sin^{-1}\left(\frac{2 \times 2}{1+2^2}\right)\right) + \cos\left(\cos^{-1}\left(\frac{1}{\sqrt{1+3}}\right)\right)$$

Sine

$$y = \sin(x)$$



domain: $(-\infty, \infty)$

range: $[-1, 1]$

period: 2π

x-intercept: $(n\pi, 0)$

y-intercept: $(0, 0)$

odd function

Directions: Fill in on all but 1. Answer the question (where necessary work on this page or attach separate paper). Search for your answer in. Call that cell #0 and proceed to this answer until you complete the circuit (go back to the beginning). No feedback is provided!

Math problems involving piecewise functions and trigonometric identities. Includes questions like 'Solve f(x) = 5. There are four solutions. Find the sum of the solutions.' and 'Find the minimum value of the function f(x) = ...'.

RD Sharma Solutions for Class 12 Maths Chapter 4 Inverse Trigonometric Functions

sin(tan^-1(24/7)) = sin y

We know that 1 + cot^2 theta = cosec^2 theta
=> 1 + cot^2 y = cosec^2 y

Now substituting this trigonometric identity we get,

1 + (7/24)^2 = cosec^2 y

1 + 49/576 = 1/sin^2 y

On rearranging we get,

sin^2 y = 576/625

sin y = 24/25 Where y is in [0, pi/2]

sin(tan^-1(24/7)) = 24/25

(iv) Given sin(sec^-1(17/8))

sec^-1(17/8) = y
Let sec y = 17/8 Where y is in [0, pi/2]

Now we have find



Extremely dense footer text containing a large table of contents for a mathematics textbook, listing chapters like Trigonometry, Circles, and Coordinate Geometry with page numbers.



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