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INVERSE FUNCTION WORKSHEET IV

1) Value of $\cos^{-1}(0)$ is _____.

2) What is $\sin^{-1}(1/2) + \cos^{-1}(2) =$ _____.



3) $\cos^{-1}(1/2) = \sec^{-1}(2)$

- a) True
- b) False

4) Range of $\cot^{-1}(x)$ is 0 to π

- a) True
- b) False

5) Find the value of $\cot^{-1}(0)$

- a) 0
- b) 1
- c) 90
- d) Not defined

6) $\operatorname{cosec}(\operatorname{cosec}^{-1}3/4) =$

- a) 3/4
- b) 4/3
- c) 3/5
- d) Not defined

7) Match the following arithmetic sequences with their common differences:

a- $\sec^{-1} 5/4$

b- $\sec^{-1} 5/3$

c- $\sin^{-1} 5/13$

d- $\cos^{-1} 5/13$

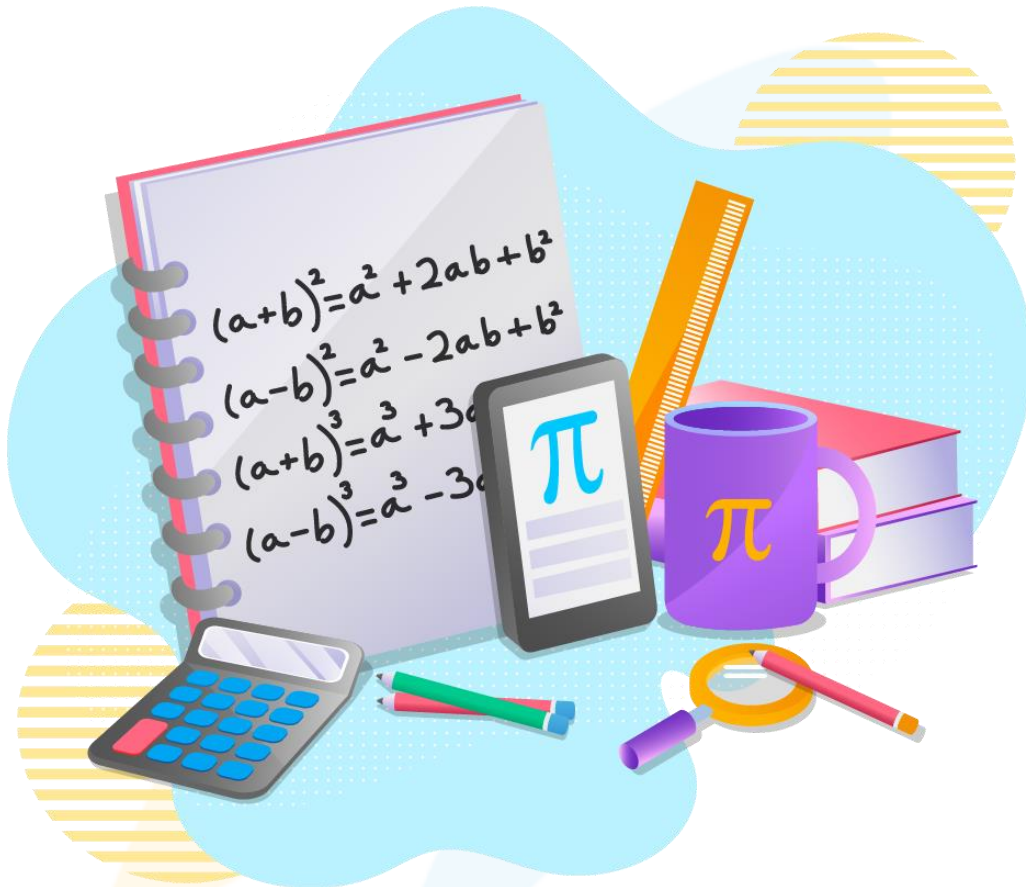
p- $\cos^{-1} 12/13$

q- $\sin^{-1} 12/13$

r- $\operatorname{cosec}^{-1} 5/3$

s- $\operatorname{cosec}^{-1} 5/4$

8) Find $\cot (\cos^{-1} 3/5)$.



9) $\operatorname{Cosec}^{-1} (\operatorname{cosec}(-45^\circ))$ is equals to?

10) John is flying a kite high up in the sky. The length of the thread used to fly the kite is 50 ft. At a particular time, the distance between the kite and the level ground is 25 ft. Find the angle that the thread makes with the ground.

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"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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**ANSWERS**

1)	(90°)
2)	(60°)
3)	a)
4)	b)
5)	d)
6)	a)
7)	a-r b-s c-p d-q
8)	$(\frac{3}{4})$
9)	(45)
10)	(30)

FUN FACT

1. Domain is the input value of the function, and range is the resultant or the output value of the function.
2. Function defines the mathematical rules of relating the variables x and y .
3. The inverse of the function equals the function of the inverse.

