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## Inverse Circular Functions

### Topic 1 Domain and Range

#### Objective Question I (Only one correct option)

1. The number of real solutions of  $\tan^{-1} \sqrt{x(x-1)} = \sin^{-1} \sqrt{x^2 - x - 1} - \frac{\pi}{2}$  is (1999, 2M)
- (a) zero (b) one (c) two (d) infinite

#### Fill in the Blank

2. The greater of the two angles  $A = 2 \tan^{-1} (2\sqrt{2} - 1)$  and  $B = 3 \sin^{-1} \frac{1}{3} = \sin^{-1} \frac{3}{5}$  is ..... (1989, 2M)

### Topic 2 Properties of Inverse Functions

#### Objective Questions II

(One or more than one correct option)

1. Let  $f(x) = \log_2(\sin x)$ ,  $0 < x < \pi$  and  $g(x) = \sin^{-1}(e^{-x})$ ,  $0 < x < 1$ . If  $a$  is a positive real number such that  $a = (f \circ g)(\frac{1}{2})$  and  $b = (g \circ f)(\frac{1}{2})$ , then (2019 Main, 10 April 10)
- (a)  $a > b$  (b)  $a < b$  (c)  $a = b$  (d)  $a > b = a < 0$
2. The value of  $\cot^{-1} \cot^{-1} 1 + \cot^{-1} 2^p$  is (2019 Main, 10 Jan 10)
- (a)  $\frac{23}{22}$  (b)  $\frac{21}{19}$  (c)  $\frac{19}{21}$  (d)  $\frac{22}{23}$
3. If  $\cos^{-1} \frac{2}{3x} = \cos^{-1} \frac{3}{4x} - \frac{\pi}{2}$ , then  $x$  is equal to (2019 Main, 9 Jan 10)
- (a)  $\frac{\sqrt{145}}{10}$  (b)  $\frac{\sqrt{145}}{12}$  (c)  $\frac{\sqrt{145}}{11}$  (d)  $\frac{\sqrt{145}}{13}$

4. If  $3 \sin^{-1} \frac{6}{11}$  and  $\cos^{-1} \frac{4}{9}$ , where the inverse trigonometric functions take only the principal values, then the correct option(s) is/are (2015 Adv.)
- (a)  $\cos^{-1} 0$  (b)  $\sin^{-1} 0$   
(c)  $\cos^{-1} (-1)$  (d)  $\cos^{-1} 0$
5. If  $0 < x < 1$ , then  $\sqrt{1-x^2} [x \cos(\cot^{-1} x) + \sin(\cot^{-1} x)]^{2020}$  is equal to (2008, 3M)
- (a)  $\frac{x}{\sqrt{1-x^2}}$  (b)  $x$  (c)  $x\sqrt{1-x^2}$  (d)  $\sqrt{1-x^2}$
6. The value of  $x$  for which  $\sin[\cot^{-1}(1-x)] = \cos(\tan^{-1} x)$  is (2004, 1M)
- (a)  $\frac{1}{2}$  (b) 1 (c) 0 (d)  $\frac{1}{\sqrt{2}}$
7. If  $\sin^{-1} x = \frac{x^2}{2} - \frac{x^2}{4} - \dots$ ,  $\cos^{-1} x^2 = \frac{x^2}{2} - \frac{x^2}{4} - \dots$ , for  $0 < |x| < \sqrt{2}$ , then  $x$  equals (2001, 1M)
- (a)  $1/2$  (b) 1 (c)  $-1/2$  (d)  $-1$

# Inverse Of Circular Functions Unit Lesson 01

**Hongru Du**



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