

1. $\tan^{-1}3 - \sqrt{3} + \sec^{-1}2 - \cos^{-1}1$ is equal to _____

- a) 0
- b) $2\pi/3$
- c) $\pi/3$
- d) $\pi/4$

2. What is the principle value of $\sec^{-1}(2/\sqrt{3})$.

- a) $\pi/6$
- b) $\pi/3$
- c) $\pi/4$
- d) $\pi/2$

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3. What is the value of $\tan^{-1}1/\sqrt{3} - \sin^{-1}1 + \cos^{-1}1/2$ is _____

- a) 2π
- b) $\pi/2$
- c) π
- d) 0

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4. $[-1, 1]$ is the domain for which of the following inverse trigonometric functions?

- a) $\sin^{-1}x$
- b) $\cot^{-1}x$
- c) $\tan^{-1}x$
- d) $\sec^{-1}x$

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5. The domain of $\sin^{-1}(3x)$ is equal to _____

- a) $[-1, 1]$
- b) $[-1/3, 1/3]$
- c) $[-3, 3]$
- d) $[-3\pi, 3\pi]$

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6. What is the value of $5 \cos^{-1}2 + 7 \sin^{-1}(-1/2)$?

- a) $-\pi/2$
- b) π
- c) $\pi/2$
- d) $17\pi/6$

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7. Find the value of $\sin^{-1}(\sin 4\pi/3)$ is _____

- a) π
- b) $\pi/3$
- c) $4\pi/3$
- d) $-\pi/3$

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8. Find the value of $\cos(\sin^{-1} \frac{3}{\sqrt{2}})$ is _____

- a) $3\sqrt{2}$
- b) 14
- c) 12
- d) 0

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9. If $\cos^{-1} x = y$, then which of the following is correct?

- a) $0 \leq y \leq \pi$
- b) $0 < y < \pi$
- c) $-\pi/2 \leq y \leq \pi/2$
- d) $-\pi/2 < y < \pi/2$

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10. $\sin^{-1} x$ is same as $(\sin x)^{-1}$.

- a) True
- b) False

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11. $\tan^{-1} \frac{3}{4} + \sec^{-1} \frac{5}{3} - \cos^{-1} \frac{1}{2}$ is equal to _____

- a) 0
- b) $2\pi/3$
- c) $\pi/3$
- d) $\pi/4$

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12. What is the principle value of $\sec^{-1}(\frac{2}{\sqrt{3}})$.

- a) $\pi/6$
- b) $\pi/3$
- c) $\pi/4$
- d) $\pi/2$

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13. What is the value of $\tan^{-1} \frac{1}{\sqrt{3}} - \sin^{-1} \frac{1}{2} + \cos^{-1} \frac{1}{2}$ is _____

- a) 2π
- b) $\pi/2$
- c) π
- d) 0

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14. $[-1, 1]$ is the domain for which of the following inverse trigonometric functions?

- a) $\sin^{-1} x$
- b) $\cot^{-1} x$
- c) $\tan^{-1} x$
- d) $\sec^{-1} x$

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15. The domain of $\sin^{-1}(3x)$ is equal to _____

- a) $[-1, 1]$

b) $[-13, 13]$

c) $[-3, 3]$

d) $[-3\pi, 3\pi]$

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16. What is the value of $5 \cos^{-1} 12 + 7 \sin^{-1}(-12)$?

a) $-\pi^2$

b) π

c) π^2

d) $17\pi^6$

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17. Find the value of $\sin^{-1}(\sin 4\pi^3)$ is _____

a) π

b) π^3

c) $4\pi^3$

d) $-\pi^3$

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18. Find the value of $\cos(\sin^{-1} 3\sqrt{2})$ is _____

a) $3\sqrt{2}$

b) 14

c) 12

d) 0

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19. If $\cos^{-1} x = y$, then which of the following is correct?

a) $0 \leq y \leq \pi$

b) $0 < y < \pi$

c) $-\pi^2 \leq y \leq \pi^2$

d) $-\pi^2 < y < \pi^2$

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20. $\sin^{-1} x$ is same as $(\sin x)^{-1}$.

a) True

b) False

ANSWERS-1.(B) 2.(A) 3.(C) 4.(A) 5.(B) 6.(C) 7.(D) 8.(C) 9.(A) 10.(B)

11.(B) 12.(A) 13.(C) 14.(A) 15.(B) 16.(C) 17.(D) 18.(C) 19.(A) 20.(B)