

PRECALCULUS QUIZ #6

NO BOOKS, NOTES OR CALCULATORS

USE A PINK PAPER SCORE. TEST FORM A

$$\#1) \sin(\sin^{-1}(-\frac{\sqrt{2}}{2})) = \sin(-\frac{\pi}{4}) = -\frac{\sqrt{2}}{2} \Rightarrow A$$

A) $-\frac{\sqrt{2}}{2}$ B) $\frac{\sqrt{2}}{2}$ C) -2 D) 0 E) NONE OF THE ABOVE

$$\#2) \sin(\sin^{-1}(\frac{3\pi}{4})) = \text{Undefined } \frac{3\pi}{2} = \frac{3(3.14...)}{2} \notin [-1,1] \Rightarrow E$$

A) $\pi/4$ B) $\frac{\sqrt{2}}{2}$ C) $\frac{1}{2}$ D) $\frac{\pi}{3}$ E) NONE OF THE ABOVE

$$\#3) \sin(\sin^{-1}(0)) = \sin(0) = 0 \Rightarrow A$$

A) 0 B) π C) 1 D) -1 E) NONE OF THE ABOVE

$$\#4) \sin^{-1}(\sin(\frac{13\pi}{2})) = \sin^{-1}(1) = \pi/2 \Rightarrow B$$

A) $\frac{13\pi}{2}$ B) $\frac{\pi}{2}$ C) $\frac{\sqrt{2}}{2}$ D) 1 E) NONE OF THE ABOVE

$$\#5) \sin(\sin^{-1}(-9)) = \text{undefined } -9 \notin [-1,1] \Rightarrow E$$

A) 9 B) -9 C) 0 D) π E) NONE OF THE ABOVE

#6) $\sin(\sin^{-1}(\frac{\pi}{2})) = \text{undefined}$ $\frac{\pi}{2} = \frac{3.14...}{2} \notin [-1, 1] \Rightarrow E$

A) $\frac{\pi}{2}$ B) 1 C) 0 D) $\frac{\sqrt{2}}{2}$ E) NONE OF THE ABOVE

#7) $\sin^{-1}(\sin(\frac{13\pi}{4})) = \sin^{-1}(-\frac{\sqrt{2}}{2}) = -\frac{\pi}{4} \Rightarrow E$

A) $\frac{13\pi}{4}$ B) $\frac{5\pi}{4}$ C) $-\frac{3\pi}{4}$ D) $-\frac{\sqrt{2}}{2}$ E) NONE OF THE ABOVE

#8) $\sin(\sin^{-1}(-\frac{\sqrt{3}}{2})) = \sin(-\pi/3) = -\frac{\sqrt{3}}{2} \Rightarrow D$

A) $\frac{\pi}{3}$ B) $\frac{5\pi}{3}$ C) $-\frac{\pi}{3}$ D) $-\frac{\sqrt{3}}{2}$ E) NONE OF THE ABOVE

#9) $\sin^{-1}(\sin(\frac{7\pi}{3})) = \sin^{-1}(\frac{\sqrt{3}}{2}) = \frac{\pi}{3} \Rightarrow B$

A) $\frac{7\pi}{3}$ B) $\frac{\pi}{3}$ C) $\frac{\sqrt{3}}{2}$ D) $-\frac{\pi}{3}$ E) NONE OF THE ABOVE

#10) $\sin(\sin^{-1}(\pi-3)) = \pi-3$ since $\pi-3 = 0.1415... \in [-1, 1] \Rightarrow A$

A) $\pi-3$ B) $3-\pi$ C) $\frac{\pi}{3}$ D) $\frac{2\pi}{3}$ E) NONE OF THE ABOVE
