

2**2**

55. What is the period of the function $f(x) = \csc(4x)$?

- A. π
- B. 2π
- C. 4π
- D. $\frac{\pi}{4}$
- E. $\frac{\pi}{2}$

56. At the school carnival, Mike will play a game in which he will toss a penny, a nickel, and a dime at the same time. He will be awarded 3 points for each coin that lands with heads faceup. Let the random variable x represent the total number of points awarded on any toss of the coins. What is the expected value of x ?

- F. 1
- G. $\frac{3}{2}$
- H. $\frac{9}{2}$
- J. 6
- K. 9

57. For what positive real value of k , if any, is the determinant of the matrix $\begin{bmatrix} k & 4 \\ 3 & k \end{bmatrix}$ equal to k ?

(Note: The determinant of matrix $\begin{bmatrix} a & b \\ c & d \end{bmatrix}$ equals $ad - bc$.)

- A. 3
- B. 4
- C. 12
- D. $\sqrt{12}$
- E. There is no such value of k .

58. Given a positive integer n such that $i^n = 1$, which of the following statements about n must be true?

(Note: $i^2 = -1$)

- F. When n is divided by 4, the remainder is 0.
- G. When n is divided by 4, the remainder is 1.
- H. When n is divided by 4, the remainder is 2.
- J. When n is divided by 4, the remainder is 3.
- K. Cannot be determined from the given information

59. For $-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2}$, $|\sin \theta| \geq 1$ is true for all and only the values of θ in which of the following sets?

- A. $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$
- B. $\left\{\frac{\pi}{2}\right\}$
- C. $\left\{\theta \mid -\frac{\pi}{2} < \theta < \frac{\pi}{2}\right\}$
- D. $\left\{\theta \mid -\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2}\right\}$
- E. The empty set

60. Ray \overrightarrow{PK} bisects $\angle LPM$, the measure of $\angle LPM$ is $11x^\circ$, and the measure of $\angle LPK$ is $(4x + 18)^\circ$. What is the measure of $\angle KPM$?

- F. 12°
- G. $28\frac{2}{3}^\circ$
- H. 42°
- J. $61\frac{1}{3}^\circ$
- K. 66°

END OF TEST 2

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