2 \( \triangle \( \triangle \)	
55. What is the period of the function $f(x) = \csc(4x)$ ?	58. Given a positive integer $n$ such that $i^n = 1$ , which of the following statements about $n$ must be true?
B. 27 Precal guess	(Note: $i^2 = -1$ )  (F. When <i>n</i> is divided by 4, the remainder is 0.
B. $2\pi$	G: When n is divided by 4, the remainder is 1.  H. When n is divided by 4, the remainder is 2.
C. 4π	<ul><li>J. When n is divided by 4, the remainder is 3.</li><li>K. Cannot be determined from the given information</li></ul>
D. $\frac{\kappa}{4}$	K. Cannot be determined from the given information  1
$(E, \frac{\pi}{2})$	59. For $-\frac{\pi}{2} \le \theta \le \frac{\pi}{2}$ , $ \sin \theta  \ge 1$ is true for all and only
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	the values of $\theta$ in which of the following sets?
lands with heads faceup. Let the random variable x represent the total number of points awarded on any	(A. $\{-\frac{\pi}{2}, \frac{\pi}{2}\}$ ) Precal guess
toss of the coins. What is the expected value of $x$ ?	B. $\left\{\frac{\pi}{2}\right\}$
$\begin{array}{ccc} \mathbf{F} & 1 & & \\ \mathbf{C} & 3 & & \\ & &$	$\mathbf{C.}  \left\{ \theta \mid -\frac{\pi}{2} < \theta < \frac{\pi}{2} \right\}$
$\frac{G. \frac{3}{2}}{H. \frac{9}{2}}$ 2 1 2	$\mathbf{D.}  \left\{ \theta \mid -\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2} \right\}$
J. 6	E. The empty set
<b>K.</b> 9	
57. For what positive real value of $k$ , if any, is the	<b>60.</b> 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
determinant of the matrix $\begin{bmatrix} k & 4 \\ 3 & k \end{bmatrix}$ equal to $k$ ?	measure of $\angle KPM$ ?
(Note: The determinant of matrix $\begin{bmatrix} a & b \\ c & d \end{bmatrix}$ equals $ad - bc$ .)	F. $12^{\circ}$ G. $28\frac{2}{7}^{\circ}$ $114 + 18 + 18$
B. 4	
C. $\frac{12}{D}$ . $\sqrt{12}$ Pre CW GUESS M. E. There is no such value of k. $\frac{12}{D}$	J. $61\frac{1}{5}^{\circ}$ $8 \times 7$
E. There is no such value of k. $MeGF$ $3^{2}q-3\cdot 4=-3-\text{opposites}$	H. $42^{\circ}$ J. $61\frac{1}{5}^{\circ}$ K. $66^{\circ}$ $3 \times 3 \times$
112-12	END OF TEST 2
STOP! DO N	OT TURN THE PAGE UNTIL TOLD TO DO SO.
110-12-14 Sam	DO NOT RETURN TO THE PREVIOUS TEST.
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
	* It you do not
	* If you do not Know puk a letter to guess during test.
	A second to the second
	guess auring test.

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