

Name: _____

**Pi Day Trivia Contest
March 14, 2011**

1. π is the _____th letter of the Greek alphabet.
2. What is the 2011th digit of π (after the decimal place)?
3. $e^{\pi i} = \underline{\hspace{2cm}}$.
4. In what year did the U.S. House of Representatives pass a resolution designating March 14 as “National Pi Day”?
5. Which digit (0-9) does not appear in the first 30 decimal places of π ?
6. Which digit occurs most frequently in the first 2011 decimal places of π ?
7. Who first used the symbol π to represent the ratio of the circumference of a circle to its diameter?
 - (a) Leonhard Euler
 - (b) George Stokes
 - (c) William Jones
 - (d) Carl Gauss
 - (e) Pythagoras
 - (f) Isaac Newton
 - (g) Diophantes of Alexandria
 - (h) Robert Kolesar
8. Who first proved that π is transcendental?
 - (a) Georg Cantor
 - (b) Hans Zassenhaus
 - (c) Carl Gauss
 - (d) Paul Erdős
 - (e) Pierre de Fermat
 - (f) Nicolas Bourbaki
 - (g) Johannes Kepler
 - (h) Ferdinand von Lindemann
9. What famous curve has maximum height $\frac{1}{\sqrt{2\pi}}$?
10. How many decimal places of π must we read before finding the first occurrence of the string “2011”?
 - (a) 640
 - (b) 1492
 - (c) 2011
 - (d) 5774
 - (e) 10002
 - (f) 12075
 - (g) 81787
 - (h) 314159