

Problem of the Week #6 (Spring 2019)

The	decimal	${\rm form}$	of the	integer	N	consists	of	2019	nines	in a	a row:	N =	999999
				_									$\overline{}$
													2019

How many nines occur in the decimal form of N^3 ?

[Please fully explain your answer.]

Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, March 6, 2019.

Every week, the best solution submitted earns a \$10 Platteville gift certificate; the top scorer each semester also wins a cash award. Good luck!

You can always see the Problem of the Week (and complete rules) online at:

http://uwpmath.weebly.com/