**A two thousand 9 after decimal point**

Prove that the first two thousand digits after the decimal point in the value of

are all 9’s.

Hint : If the given number is a man, find his wife.



Let M = , W =

Let C =

=

= 2k , an even integer

But

Hence



which is an integer short of 0.00…01 ( 2014 zeros after the decimal point)

* has at least 2014 number of 9’s after the decimal point.

Yue Kwok Choy

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