

September 12<sup>th</sup>

Find the units digit of

$$21^{21} + 24^{24} + 26^{26}$$

All positive integer powers of 21 end in a 1

All positive integer powers of 26 end in a 6

Powers of 24 end alternately in 4 and 6.

Even powers end in 6

Therefore the units column will be  $4+6+1=11$

**Hence the units digit will be 1**