

# Units Digit

Q:  $3^{2021}$  units digit?

$$\begin{aligned} 3^1 &= 3 \\ 3^2 &= 9 \\ 3^3 &= 27 \\ 3^4 &= 81 \\ 3^5 &= 243 \\ 3^6 &= \dots 9 \\ 3^7 &= \dots 7 \\ 3^8 &= \dots 1 \\ 3^9 &= \dots 3 \end{aligned}$$

$$\begin{array}{r} 505 \text{ R1} \\ 4 \overline{) 2021} \end{array}$$

Q:  $26^{100}$  units digit?

$$\begin{aligned} 6^1 &= 6 \\ 6^2 &= \dots 6 \\ 6^3 &= \dots 6 \\ 6^4 &= \dots 6 \\ 6^5 &= \dots 6 \\ 6^6 &= \dots 6 \end{aligned}$$

⑥

Q:  $(3^3)^5$  units digit?  
 $\underline{27^5}$

$$\begin{aligned} 7^1 &= 7 \\ 7^2 &= 9 \\ 7^3 &= \dots 3 \\ 7^4 &= \dots 1 \\ 7^5 &= \dots 7 \end{aligned}$$