

POWERS!

$$2^5 = \cancel{200000}$$

$$2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 = \boxed{32}$$

$$(-3)^4 \begin{array}{l} \uparrow \\ \text{even} \\ = \text{pos} \end{array} = (-3)(-3)(-3)(-3) = 81$$

9 9

$$(-5)^3 \begin{array}{l} \uparrow \\ \text{odd} \\ = \text{neg} \end{array} = (-5)(-5)(-5) = -125$$

$$\begin{array}{l} \uparrow \\ \text{opp of } 2^3 \end{array} 2^3 = -2 \cdot 2 \cdot 2 = -8$$

always be neg

$$\begin{aligned} 2^4 &= 16 \xrightarrow{\times 1/2} \\ 2^3 &= 8 \xrightarrow{\times 1/2} \\ 2^2 &= 4 \xrightarrow{\times 1/2} \\ 2^1 &= 2 \xrightarrow{\times 1/2} \end{aligned}$$

$$2^0 = 1 \quad a^0 = 1$$

$$2^{-1} = \frac{1}{2}$$

$$2^{-2} = \frac{1}{4}$$

neg exp \rightarrow divide

$$6^{-3} = \frac{1}{216} \leftarrow 6^3$$

$$(-2)^{-5} = -\frac{1}{32}$$