

POWER UP



$$(3x^4y^{-2})^5$$
$$= 3^5 x^{20} y^{-10}$$
$$= \frac{3^5 x^{20}}{y^{10}}$$

$$m^5n^1 \otimes n^{-2}m^3$$

$$m^8n^{-1}$$

$$\frac{m^8}{n^1}$$

$$\frac{4x^3y^1}{2x^{-2}y^5}$$

$$3 + +2$$

$$1 + -5$$

$$2x^5y^{-4}$$

$$\frac{2x^5}{y^4}$$

$$\frac{20c^3d}{3c^{-2}}$$

$$3++2 \quad \frac{20c^5d}{3}$$

$$\frac{(10^1 a^{-2} b^3)^2}{(10^1 b^{-2} a^{-4})^3}$$

2+3
"

$$= \frac{10^2 a^{-4} b^6}{10^3 b^{-6} a^{-12}}$$

$$= \frac{10^{-1} a^8 b^{12}}{a^0 b^0}$$

$$= \frac{a^8 b^{12}}{10^1}$$

$$-4 + +12$$

$$6 + +6$$

$$\left(\frac{2x^{-2}y^3}{2x^4y^1}\right)^3$$

$$\left(\frac{1x^{-6}y^2}{x^{-18}y^6}\right)^3$$

$$-2 + -4$$

$$3 + -1$$

$$= \frac{y^6}{x^{18}}$$

