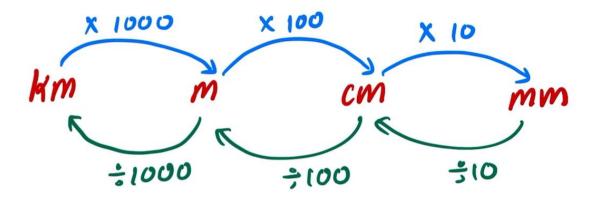
## Time conversions

$$0 1 hr = 60 \, \text{min} = 3600 \, \text{sec}$$

$$\frac{O}{hr} = \frac{1 \times 1000 \text{ m}}{3600 \text{ sec}} = \frac{5}{18} \frac{m}{s}$$

## most common conversion



$$1mL = 1cm^{3} = 1cc$$
 $1m^{3} = 1000 L$ 
 $0^{\circ}C = 273 \text{ K} - [\text{K} = \text{C} + 273]$ 
 $1 \text{ Ang stron}(\mathring{n}) = 1 \times 10^{-10} \text{ m}$ 
 $1 \text{ mol} = 6 \cdot 02 \times 10^{23} \text{ porticles}$ 
 $1 \text{ cal} = 4 \cdot 18 \text{ J}$ 
 $1 \text{ atm} = 760 \text{ torr} = 760 \text{ mmHg} = 101 \cdot 3 \text{ kpa}$ 

$$1pa = 1N/m^2 = 1kg/m \cdot s^2$$

$$1 mega = 1 \times 10^6$$

$$1 um = 1 \times 10^{-6} m \rightarrow m^2 \text{ crometer}$$

$$1 nm = 1 \times 10^{-9} m \rightarrow nanoweter$$

$$1 fm = 1 \times 10^{-15} m \rightarrow fem \text{ to meter}$$

$$1 pm = 1 \times 10^{-15} m \rightarrow p^2 \text{ cometer}$$

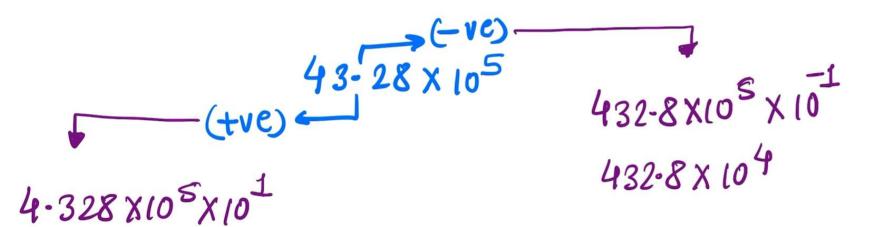
$$1 pm = 1 \times 10^{-12} m \rightarrow p^2 \text{ cometer}$$

$$1 pm = 1 \times 10^{-3} m \rightarrow p^2 \text{ cometer}$$

$$1 mm = 10^{-3} m \rightarrow p^2 \text{ mille meter}$$

## \* Point shifting\*

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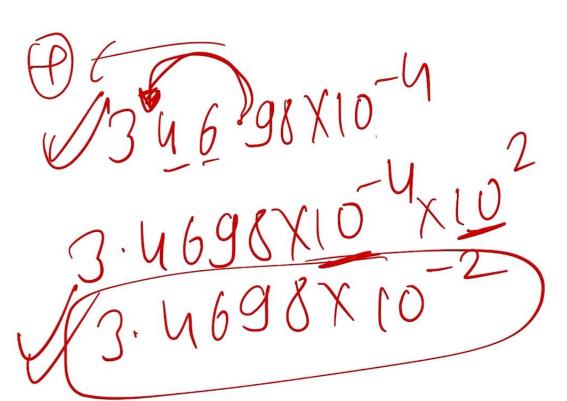


## Indi°ces }

$$\chi^{m} \cdot \chi^{n} = \chi^{m+n} \qquad \begin{vmatrix} e \cdot g \\ 10^{5} \times 10^{4} = 10^{5} \end{vmatrix} = 10^{9}$$

$$\frac{1}{\chi^{m}} = 1 \times \chi^{-m} \qquad \begin{vmatrix} \frac{e \cdot g}{2} \\ \frac{1}{10^{4}} = 2 \times 10^{-4} \end{vmatrix}$$





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