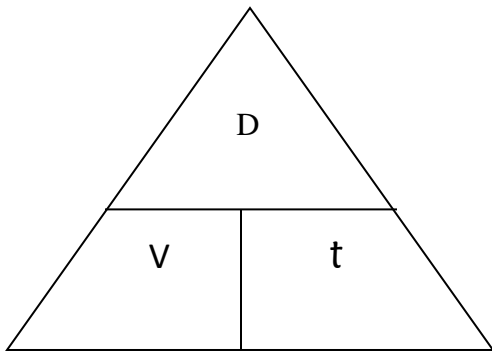


Physics -Circular Motion

In the x direction (STRAIGHT LINE):



$$v = \frac{\text{distance}}{\text{time}}$$

In a circular spin, turn, or rotate:

$$\text{Tangential Velocity} = \frac{2\pi r}{T}$$

$$\text{Period (T)} = \frac{\text{time}}{\text{Cycle (revolutions)}}$$

or

$$\text{Period} = 1/f$$

$$\text{Frequency (f)} = \frac{\text{cycle (revolutions)}}{\text{time}}$$

or

$$\text{Frequency} = 1/T$$

$$\text{Circumference} = 2\pi r$$

$$a_c = \frac{v^2}{r}$$

$$F_c = ma_c$$

Variable
Radius (r)
Mass (m)
Force (F)
Gravity (g)
Acceleration (a)
Time (t)
Frequency (f)
Period (T)
Circumference (C)