

2.2 Non-Uniform Motion

Case Study: Free-Falling Parachutist (Terminal Velocity)

As an object moves through fluid, it collides with particles of fluid, by resistance (drag)

$F_D = \frac{1}{2} \rho v^2 C_D A$

• Pressure

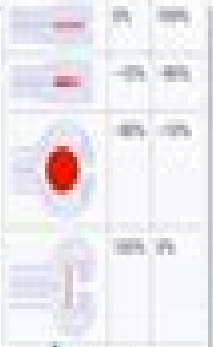
$F_p \propto v^2 A$

Pressure increases with velocity

Define:

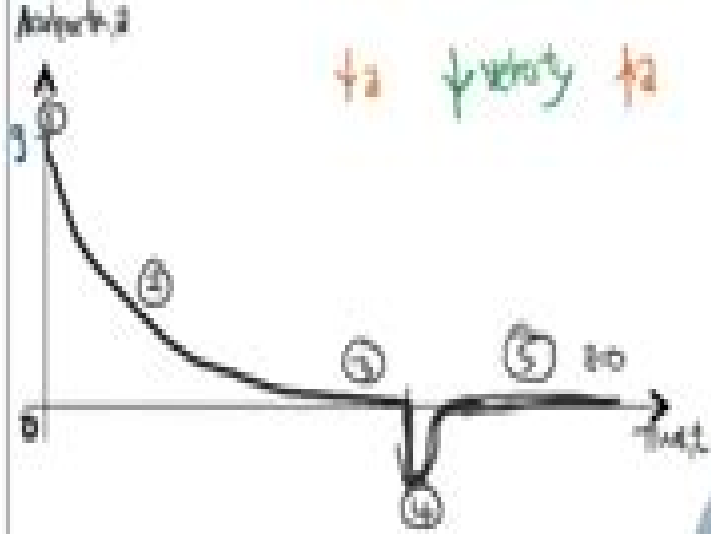
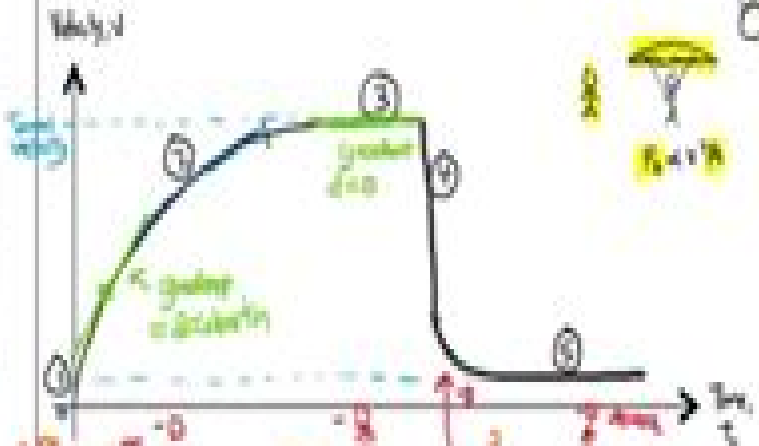


$\Sigma F = ma$



t	Velocity	Drag Force, D	Resultant Force	Acceleration
①	0 m/s ⁻¹	No Drag force D=0	Resultant Downwards due to weight (+) ΣF	$W = mg$ negative ma $a = g = 9.81 \text{ m/s}^2$ (+)
②	v increases increases	-D (upwards) increases ($\propto v^2$)	+ ΣF (downwards) decreasing	+ Σ (downwards) decreasing $W + (-D) = ma$
③	Constant Terminal velocity	Drag = Weight (over)	$\Sigma F = 0$ $W + (-D) = 0$	$a = 0$ (no change in speed)
④	So, v decreases decreases	-D increases due to normal drag	- ΣF (upwards) suddenly	- a (upwards) suddenly
⑤	Velocity (down) decreases until decreasing rate will reduce velocity (sudden)	-D (upwards) Increases as velocity decreases, until terminal is reached.	- ΣF (upwards) decreases until 0, where weight = drag	- a (upwards) decreases until 0 m/s ⁻¹ (no change in v)

$\Sigma F = ma$
 $W + (-D) = ma$



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