Tahsili Physics (Mechanics) Cheat Sheet

by TheGoldenClover via cheatography.com/201551/cs/42689/

Formulas of Gravitational Acceleration

$vf = vi + gt$

$df = di + vit + 1/2\ gt^2$

$vf^2 = vi^2 + 2g(df - di)$

g is negative when an object is thrown up, and positive when it falls down

Formulas of Constant Acceleration

$vf = vi + at$

$df = di + vit + 1/2\ at^2$

$vf^2 = vi^2 + 2a(df - di)$

Newton's Laws of Motiona

First Law	an object at rest stays at rest, and an object in motion stays in motion unless an unbalanced force is applied
Second Law	F = ma
Third Law	The law of action and reaction

Friction Force

normal force	a contact force in which a surface vertically affects an object
friction force	a force that prevents an object's motion
types of friction	static and kinetic
formula of friction force (static)	$f = \mu s \times mg$
formula of friction force (kinetic)	$f = \mu k \times mg$
formula of Normal Force	F = mg (vertical) or the object's weight (horizontal)

$\mu s > \mu k$

friction depends on mass, not surface area

weight is measured in N, mass is measured in Kg

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