

[AI Tools Equations List](#)

Eq Group	Eq #	Problem Description
Speed	1	Speed from Distance & Drag
	2	Constant Speed from Distance & Time
	3	Speed from Drag & Time
	4	Final Speed from Start Speed, Drag & Time
	5	Final Speed from Start Speed, Drag & Distance
	6	Start Speed from Final Speed, Drag & Time
	7	Start Speed from Final Speed, Drag & Distance
Time	10	Time from Constant Speed & Distance
	11	Time from Speed & Drag
	12	Time from both Speeds & Drag
	13	Time from Distance & Drag
Distance	20	Distance from Speed & Drag
	21	Distance from Constant Speed & Time
	22	Distance from Two Speeds & Drag
	23	Distance from Initial Speed, Drag & Time
Acceleration Factor	30	Drag from Speed & Distance
	31	Drag from Speed & Time
	32	Drag from both Speeds & Time
	33	Drag from both Speeds & Distance
	34	Drag from Distance & Time
	35	Drag from Initial Speed, Distance & Time
	36	Drag from Road Friction, Brake Efficiency & Grade
Linear Momentum	37	Drag from Force & Weight
	40	General Two Dimensional Linear Momentum
	41	In Line General Linear Momentum
	42	In Line Linear Momentum with Restitution
	43	In Line Plastic Linear Momentum
	44	In Line Elastic Linear Momentum
	Special	45
46		Radius from Chord and Mid-Ordinate
47		Critical Speed
48		Combined Speed from different Drag Surfaces
49		Combined Speed
Airborne	50	Speed from Horizontal Launch and Fall
	51	Small Angle Speed at Launch Equation, < 10 degs
	52	General Projectile Speed Equation
Energy	60	Speed from Linear Kinetic Energy
	61	Kinetic Energy from Speed and Weight
	62	Force from Kinetic Energy and Distance
	63	Distance from Kinetic Energy and Force
Motorcycle	70	Lateral Acceleration Factor from Speed and Radius
	71	M/C Lean Angle from Speed and Radius
	72	Turning Radius From Speed and Lateral Drag
Animation Assist	80	Speed from Start Speed, Start Time, Drag & Time
	81	Distance from Start Distance, Start Speed, Start Time, Drag & Time
Reaction Times	90	Total Distance from P/R Time, Speeds & Drag f
	91	Total Distance from Start Speed, Times & Drag f
	92	P/R Time from Speeds, Total Distance & Drag
	93	P/R Time from Start Speed, Total Distance, Drag & Time
	94	Start Speed from Total Distance, Times & Drag
	95	Start Speed from Total Distance, Final Speed, P/R Time & Drag
	96	Drag from Speeds, P/R Time & Total Distance
	97	Drag from Start Speed, Total Distance & Times
	98	Total Time from P/R Time, Speeds & Drag
	99	Total Time from P/R Time Braking Distance & Drag