

Table 2.1
The Five Equations of Linear Kinematics

No.	Equation	$\Delta \vec{d}$	\vec{a}	\vec{v}_2	\vec{v}_1	Δt
1	$\vec{v}_2 = \vec{v}_1 + \vec{a}\Delta t$		✓	✓	✓	✓
2	$\Delta \vec{d} = \frac{1}{2}(\vec{v}_2 + \vec{v}_1)\Delta t$	✓		✓	✓	✓
3	$\Delta \vec{d} = \vec{v}_1\Delta t + \frac{1}{2}\vec{a}\Delta t^2$	✓	✓		✓	✓
4	$\Delta \vec{d} = \vec{v}_2\Delta t - \frac{1}{2}\vec{a}\Delta t^2$	✓	✓	✓		✓
5	$\vec{v}_2^2 = \vec{v}_1^2 + 2\vec{a}\Delta \vec{d}$	✓	✓	✓	✓	