

2-6 Applying equations of motion

Book 2 Ch 2 p.62
Skill: problem-solving

Equations of motion for uniformly accelerated motion:

(1)	$v = u + at$	
(2)	$s = (u + v)t$	
(3)	$s = ut + at^2$	
(4)	$v^2 = u^2 + 2as$	

- 1 These equations apply to all **uniformly accelerated motion**, i.e. the acceleration a is constant. Here are some examples of uniformly accelerated motion.

(a) A car accelerates at an acceleration of 1 m s^{-2} along a straight line (Fig 1).

(b) A lorry travels at a velocity of 30 m s^{-1} along a straight line, i.e. $a = 0$.



Fig 1

(c) A ball is falling freely above the ground (Fig 2), i.e. $a = g$.

(d) A ball is thrown upwards vertically and then falls freely (Fig 3), i.e. $a = g$.



Fig 2



Fig 3

However, the equations of motion **cannot** be applied to the following situations in which the acceleration a is not constant in the whole journeys.

- A car moves at a velocity of 10 m s^{-1} on a straight road. Then it stops for a while, and moves at 10 m s^{-1} again. (The magnitude of a is not constant in the whole journey.)
- A car turns around a corner at 10 m s^{-1} (Direction of a is changing.).

- 2 When applying these equations, the signs of s , u , v and a should be consistent with the positive direction defined for the problem.

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