Physics I

FINAL EXAM REVIEW SHEETS / 8 pages / 16 worked ideas

01 MOTION

Use kinematics only while acceleration is constant.

Displacement

RULE

$$\Delta x = x_f - x_i$$

DECISION CUE / TRAP

Signed change along an axis.

TRY IT

$$x_i = 2\,\text{m},\ x_f = 14\,\text{m}$$

WORKED STEP

$$\Delta x = 14 - 2 = 12\,\text{m}$$

COVER & RECALL / REDO THE EXAMPLE WITHOUT LOOKING

Final velocity

RULE

$$v_f = v_i + at$$

DECISION CUE / TRAP

Acceleration must stay constant.

TRY IT

$$v_i = 3\,\text{m/s},\ a = 2\,\text{m/s}^2,\ t = 4\,\text{s}$$

WORKED STEP

$$v_f = 3 + 2(4) = 11\,\text{m/s}$$

COVER & RECALL / REDO THE EXAMPLE WITHOUT LOOKING

SAMPLE

Watermarked sample - full pack has 8 pages and 16 worked ideas