

[08-04-30B-T-Phy]
Review One Dimensional Motion - 1

Turn this over, the questions are on the other side (to give you more room to work).

■ The height of a body is given by $y(t) = 7 \text{ m} + 30 t \frac{\text{m}}{\text{s}} - 5 t^2 \frac{\text{m}}{\text{s}^2}$.

[1] Write the velocity of the body as a function of time.

[2] What is the velocity of the body at $t = 2 \text{ s}$?

[3] At what time does the body reach its maximum height?

[4] What is the maximum height that the body reaches?

[5] Write the acceleration of the body as a function of time.