

Physics I – Exam 1 – Fall 2005 Answer Key

Part A-1 – 1: 12, 2: D, 3: F, 4: B, 5: B 4 pts each.
Partial credit +4 points if 4 and 5 are wrong but the same (+2 each).

Part A-2 – 6: E, 7: D, 8: 0, 9: G, 10: B, 11: H 2 pts each.

B 24 Points

This problem relies on the impulse-momentum theorem (eq. 12). The X part has constant forces in the two time intervals, and so the graph of P_x is two straight line segments with slopes of 2 and 1 kg m/s² respectively. The graph of P_y is more complicated since the two parts are parabolas. Students should know this in analogy with the relationship between velocity and displacement, or alternatively they could figure it out by calculating the values at intermediate points.

Features Looking For

use impulse-momentum theorem

$P_x = 0$ at $t = 0$.

P_x at 1 sec = +2 more than P_x at 0 sec.

P_x at 2 sec = +1 more than P_x at 1 sec.

straight line P_x from 0 to 1 sec.

straight line P_x from 1 to 2 sec.

$P_y = 0$ at $t = 0$.

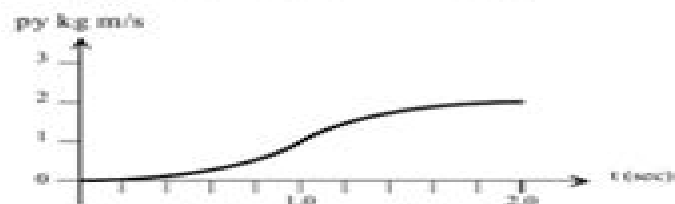
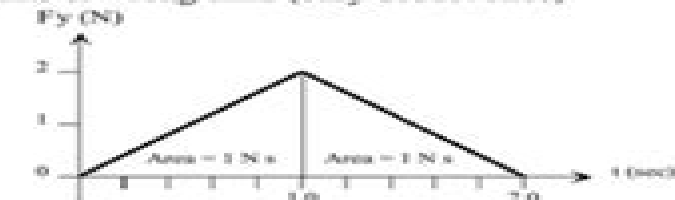
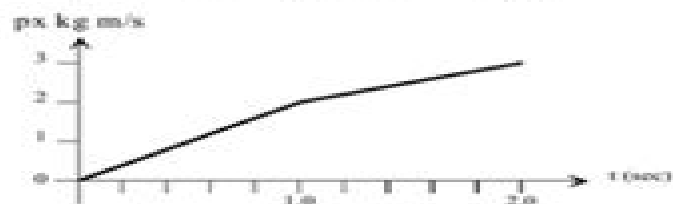
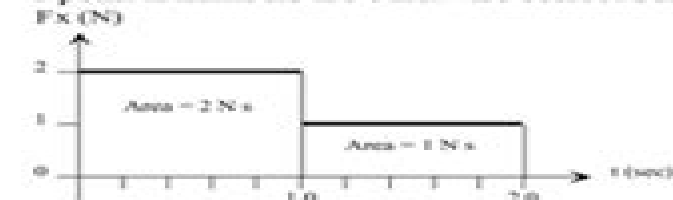
P_y at 1 sec = +1 more than P_y at 0 sec.

P_y at 2 sec = +1 more than P_y at 1 sec.

correct parabola for P_y from 0 to 1 sec. (slope = 0 at $t = 0$, slope = 1 at $t = 1$)

correct symmetry of curve around $t = 1$ sec. (any shape with proper symmetry.)

-1 point if numbers are otherwise correct but no units or wrong units (only deduct once)



Mastering Physics Answer Guide

Christian G. Meyer



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