

Physics I – Exam I – 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: O, 9: G, 10: B, 11: H

2 pts each.

14 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

$$F_x = 0 \text{ at } t = 0.$$

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

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

straight line Px from 0 to 1 sec.

straight line Px from 1 to 2 sec.

$$P_V = 0 \text{ at } t = 0.$$

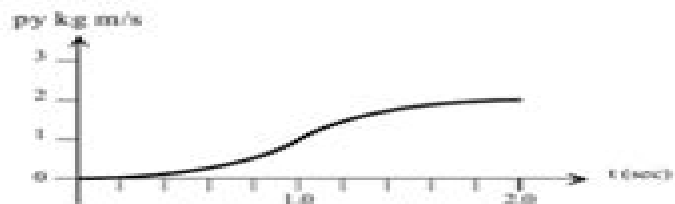
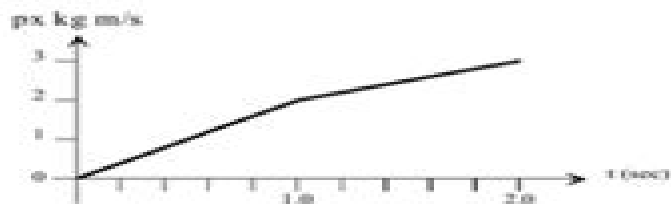
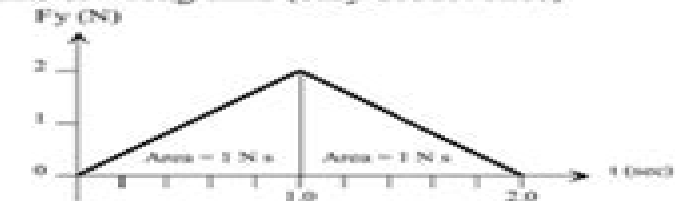
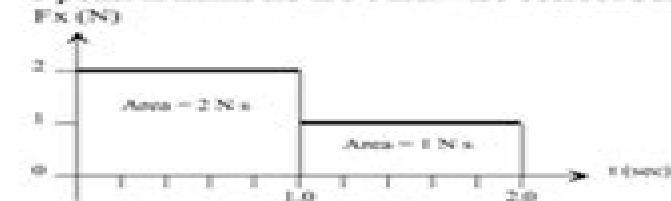
Pv at 1 sec = +1 more than Pv at 0 sec.

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

correct parabola for P_v 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)



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