

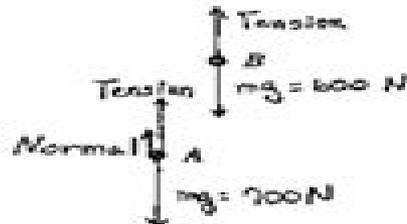
AP[®] PHYSICS B
2003 SCORING GUIDELINES

Question 1

15 points total

Distribution
of points

(a) 3 points



- For a free-body diagram that includes any one of the three forces on Student A (weight, normal, or tension) 1 point
- For correctly including the other two forces on Student A 1 point
- For a correct free-body diagram for Student B (including both weight and tension) 1 point
- One point was deducted for each extraneous vector, up to a maximum of the number of points already earned.

(b) 3 points

- For equating the tension in the rope to the weight of Student B 1 point
 $T = m_B g$
- For a correct expression for the sum of the forces on Student A 1 point
 $\Sigma F_y = T + N - m_A g = 0$
- Eliminating T and solving for N
 $N = m_A g - m_B g$
 $N = (70 \text{ kg} - 60 \text{ kg})(9.8 \text{ m/s}^2) = 686 \text{ N} - 588 \text{ N}$
- For the correct answer 1 point
 $N = 98 \text{ N}$ (or 100 N using $g = 10 \text{ m/s}^2$)

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