the cart is pushed up the incline by a force F, whose magnitude is greater than the weight In Case A, the force is applied parallel to the incline; in Case B, the force is applied horizon	F, whose magnitude is greater than the weight of the che incline; in Case B, the force is applied horizontally cart is pushed from rest a length L up the incline and only in Case B. Government to the inequality $v_A > v_B$. Sing specific forces and force components.	Consider a cart on a smooth incline. The incline makes an angle θ with the horizontal. In two cathe cart is pushed up the incline by a force F , whose magnitude is greater than the weight of the value of the force is applied parallel to the incline; in Case B , the force is applied horizontally (parallel to the ground). In both cases, the cart is pushed from rest a length L up the incline and L a final speed V_A in Case A and a final speed V_B in Case B . Argumentation The two final speeds are related according to the inequality $V_A > V_B$. i. Explain why this is the case by discussing specific forces and force components.
Argumentation The two final speeds are related according to the inequality $v_A > v_B$. i. Explain why this is the case by discussing specific forces and force components.	g to the inequality $v_A > v_B$. sing specific forces and force components.	Argumentation The two final speeds are related according to the inequality $v_A > v_B$. i. Explain why this is the case by discussing specific forces and force components.
The two final speeds are related according to the inequality $\nu_A > \nu_B$. i. Explain why this is the case by discussing specific forces and force components.	sing specific forces and force components.	The two final speeds are related according to the inequality $v_A>v_B$. i. Explain why this is the case by discussing specific forces and force components.
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Quantitative Analysis PART B: Using either Newton's second law and a kinematics equation or using principles of work and energy, write equations for the following in terms of m, g, L, θ , and F. i. The speed $v_{\scriptscriptstyle A}$ ii. The speed $v_{\scriptscriptstyle B}$

4.E Comparisons of Work by Identical Forces

PART C:	Explain how your two equations from Part B support the idea that $v_A > v_B$. Also explain how your two equations support your answer to either Part A (i) or Part A (ii), depending on whether you used forces or energy in Part B.