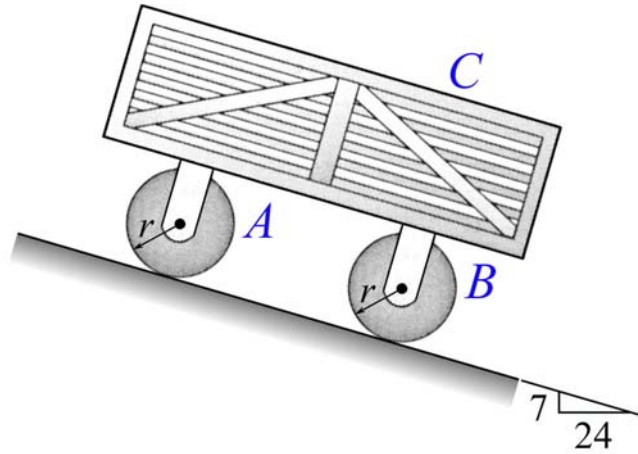


Quiz #8 The 50-lb carriage C is supported by a 20-lb disk A and a 15-lb disk B as shown, where $r = 9$ in. Knowing that the disks roll without slipping and the carriage has a velocity of 2 ft/s down the incline at time $t = 0$, determine the speed v_C of the carriage at time $t = 4$ s.



Answer:

$$v_C = 31.9 \text{ ft/s}$$