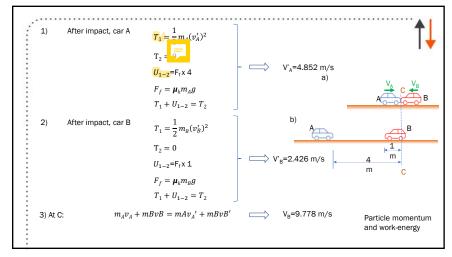


1

As shown in figure a, vehicle A and vehicle B collide at location C. After the collision, both vehicles have their brakes locked and slide to new positions (Fig. b).

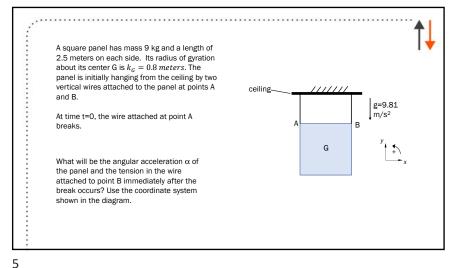
Given: $m_A = m_B = 1.85 \ kg$ $V_A = 9 \ km/hr \ \text{to the right before collision}$ $\mu_k = 0.3 \ \text{for both cars.}$ Find:

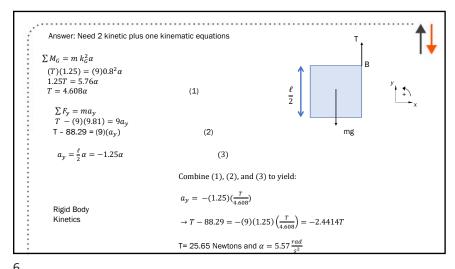
1) The speed of vehicle A immediately after collision;
2) The speed of vehicle B immediately after collision;
3) The speed of vehicle B just before the collision.

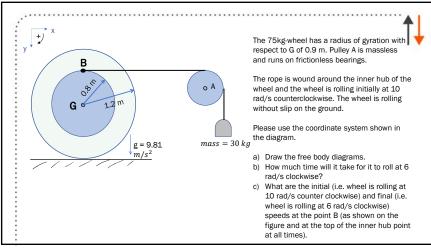


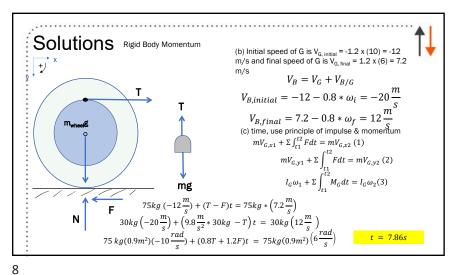
3

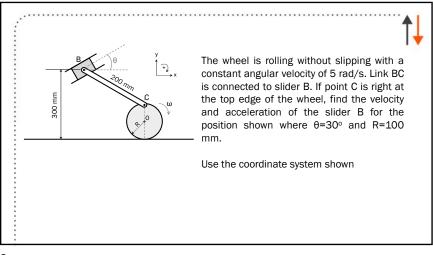
1

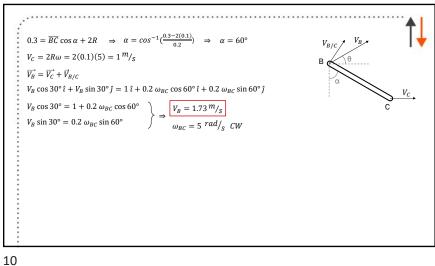


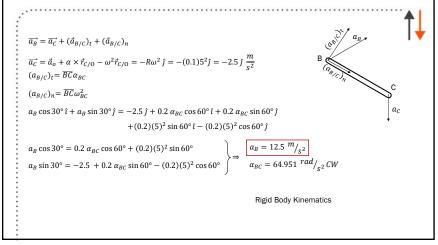


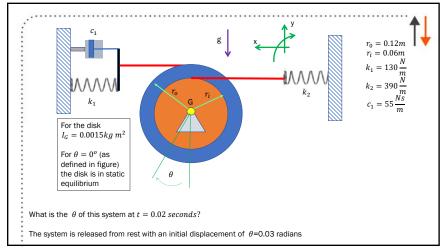












11 12

