2-17. Block B is moving with an initial downward velocity $(v_B)_1 \sim N(2, 0.2^2)$ m/s and block A is moving on a smooth plane. If $m_A = 50$ kg and $m_B = 5$ kg, and the mass of the pulleys and cords are negligible, determine the velocity of A when $t = 5$ s.

Solution: $(v_A)_2 \sim N(6.39, 0.4^2)$ m/s $\leftarrow$