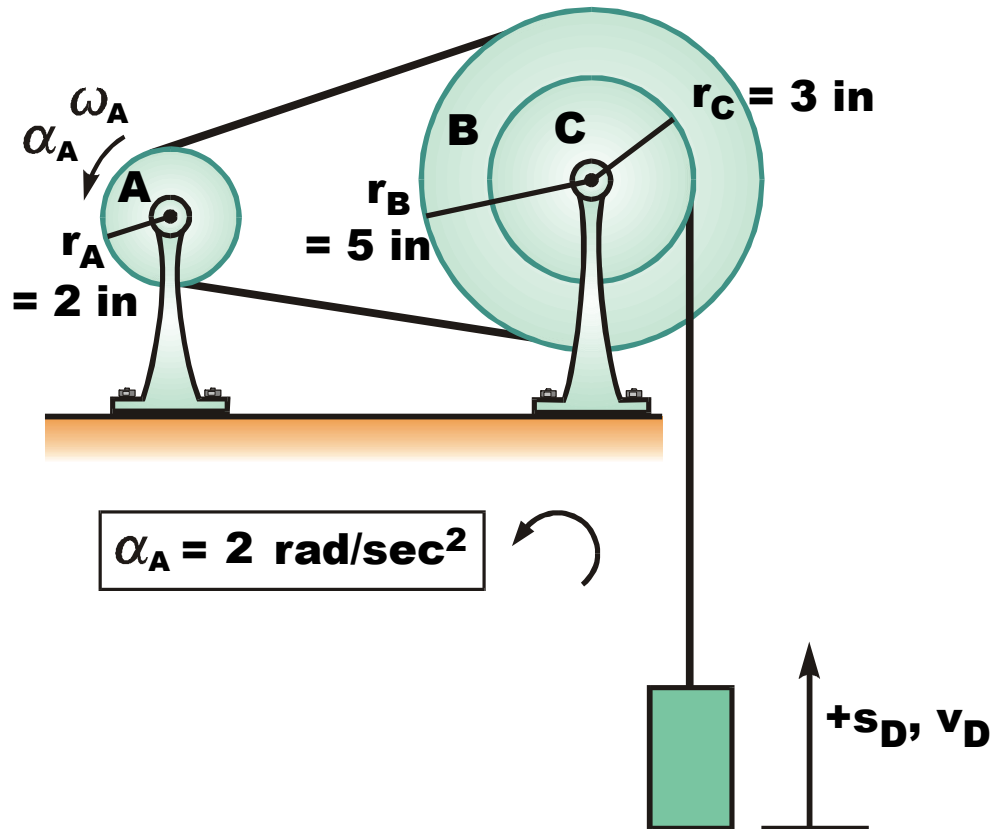
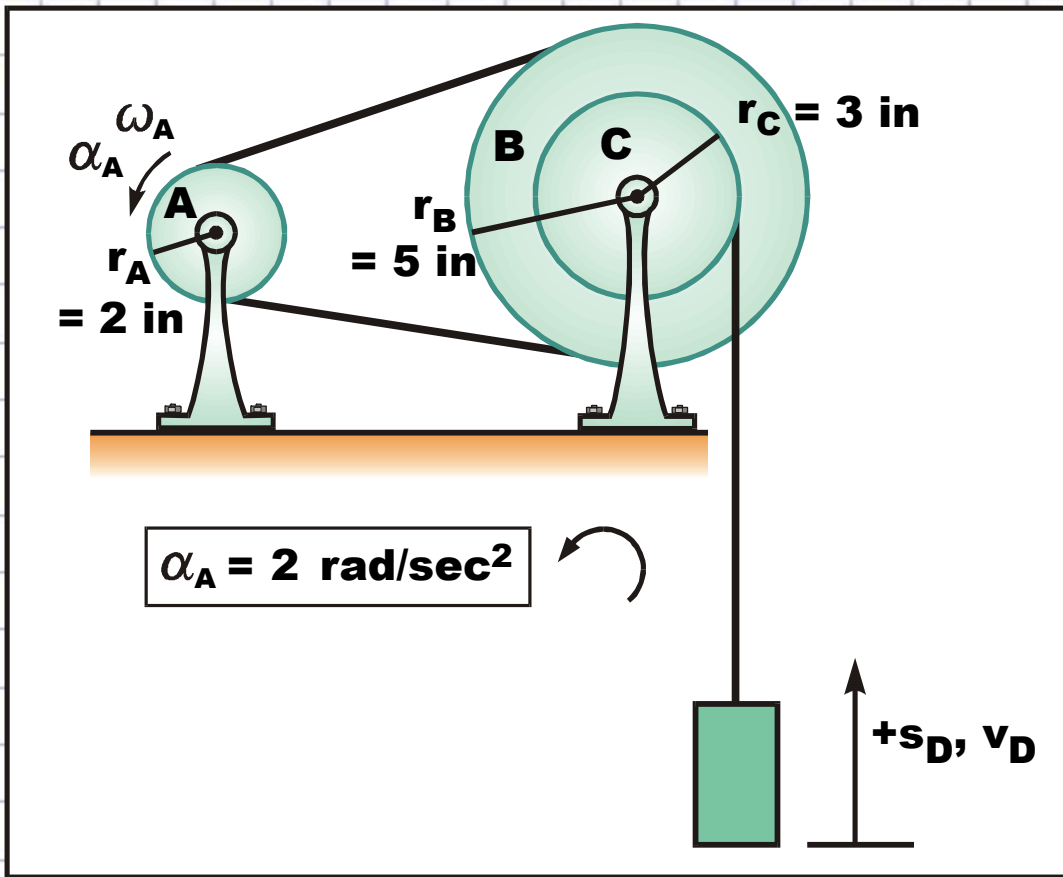


Fixed Axis Rotation Example Problem 2

Fixed Axis Rotation Example Problem 2:

Two pulleys A and B are connected by a V belt. Gear A starts from rest and accelerates uniformly at $\alpha_A = 2 \text{ rad/sec}^2$ in the direction shown. Drum C is pinned to and turns with pulley B. A cable is attached to weight D and wrapped around drum C. After 3 sec, find s_D and v_D for the weight being lifted.





$$\omega_A = 6 \text{ r/s } \curvearrowleft$$

$$\theta_A = 9 \text{ rad } \curvearrowleft$$