

100. Using Eq. 11-7 and Eq. 11-18, the average angular acceleration is

$$\alpha_{\text{avg}} = \frac{\Delta\omega}{\Delta t} = \frac{\Delta v}{r\Delta t} = \frac{25 - 12}{(0.75/2)(6.2)} = 5.6 \text{ rad/s}^2 .$$