A grinding wheel is rotating at 1800 revolutions per minute. It is then turned off and slows at -7.25 rad/s^2 . (a) What is its angular velocity in rad/s 15 seconds later? (b) How long does it take to stop? (c) When it comes to rest, what total angle in radians has it turned through?

$$W_f = W_i + at$$

= 188,5 $\frac{rad}{5}$ - 7,25 $\frac{rad}{52}$ (15s)
a) $W_f = 79.8 \frac{rad}{5}$

$$\Delta \Theta = Want$$

$$= \left(\frac{W_{\xi} + W'}{2}\right) + \left(\frac{O \operatorname{red}}{2} + 188.5 \operatorname{red}\right) = 26s$$

$$C) \Delta \Theta = 2450 \operatorname{red}$$