A wheel rotates with constant angular acceleration of 3.5 radians per second square. If the angular speed or velocity of the wheel is 2 radian per second at time $=0$, what angle does the wheel rotate between time $=0$ and time=2seconds

## Solution

$$
\theta=\omega t+\frac{\alpha t^{2}}{2}=(2)(2)+\frac{1}{2}(3.5)(2)^{2}=11 \mathrm{rad}
$$

Answer: 11 rad.

## Answer provided by AssignmentExpert.com

