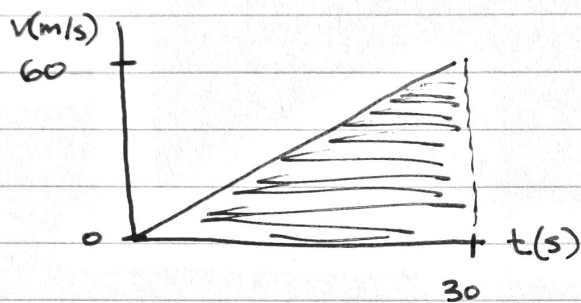How far does a uniformly-accelerating car travel under the following conditions?

$v_i = 0$

$a = 2 \text{ m/s/s}$

$t = 30 s$

$X \Rightarrow$ area under the v-t curve

$X = \frac{1}{2}(30)(60)$

$= 900 m$

or

$X = X_i + v_i t + \frac{1}{2}at^2$

$= 0 + 0(30) + \frac{1}{2}(2)(30^2)$

$= 900 m$

the car travels 900m