

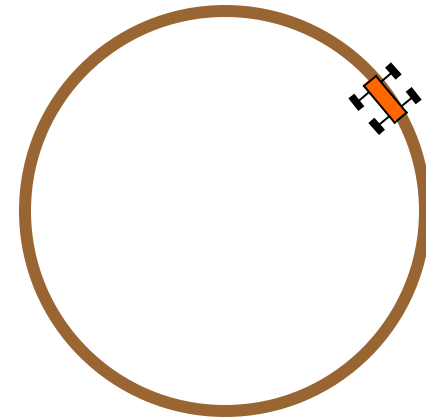
Q1 - Answer = c

Q2 - Problem A - Last name A-K

A car accelerates on a circular track of radius 1 km (1000 m). If it starts at rest and reaches a speed of 50 m/s at the end of 2 seconds, what is its average angular acceleration in radians/s²?

- A. $\frac{1}{1000}$ $=v/r; \quad \omega_0=0$
- B. $\frac{2}{1000}$ $=(\omega - \omega_0)/t =$
- C. $\frac{50}{1000}$ $v/(rt)=50/(2000)$
- D. $\frac{1}{40}$** $=1/40$

E. $\frac{1}{20}$



Q1 - Answer = c

Q2 - Problem B - Last Name L-Z

- An automobile goes around a circular track of radius 750 m. If it accelerates from 15 to 30 m/s in a time of 7.5 s, what is its angular acceleration in radians/s²?

A. 1/750

$$\alpha = v_0/r; \quad \omega = v/r$$

B. 2/750

$$\alpha = (v - v_0)/t =$$

C. 2.0

$$(v - v_0)/(r t) =$$

D. 1/750

$$(30-15)/(750 \times 7.5) =$$

E. 2/750

$$2/750 = 2.67 \times 10^{-3}$$

