

Problem Solutions Chapter #8 Giancoli 6th Edition

■ Problem #8:

QUESTION: A rotating merry - go - round makes one complete revolution in 4.0 seconds (a) What is the linear speed of a child seated 1.2 meter from the center? (b) What is her acceleration?

ANSWER: The linear or tangential velocity $V=\omega R$ where $R=1.2$ m is the distance to the axis of rotation. The period of revolution is $T=4.0$ sec/cycle so the frequency $f=1/4$ cycles/sec= 0.25 Hertz so the angular frequency in radians per second is $\omega=2\pi f=1.57$ Rad/s. The linear speed $V=\omega R=1.57$ Rad/s $\times$ 1.2 m =1.9 m/s. The tangential acceleration is zero because it seems ω is constant (and so the angular acceleration is zero). The radial acceleration is $V_p=V^2/R=\omega^2 R=2.96$ m/s² in the radial direction toward the center of the merry-go-round.

$$T = 4.0;$$

$$f = 1 / T;$$

$$\omega = 2 \cdot \pi \cdot f$$

$$1.5708$$

$$R = 1.2;$$

$$V = \omega \cdot R$$

$$1.88496$$

$$a = v^2 / R$$

$$2.96088$$

■ Problem #9

Calculate the angular velocity of the Earth (a) as it orbits the Sun and (b) about its axis.

ANSWER: $T=365$ days/cycle for the Earth going about the Sun. $f=1/T$ is the frequency in cycles/sec and $\omega=2\pi f$ is the angular frequency in Rad/sec and $\omega=1.2 \times 10^{-7}$ Rad/s.

$$T = 365. \cdot 24 \cdot 60 \cdot 60.;$$

$$f = 1 / T;$$

$$\omega = 2 \cdot \pi \cdot f$$

$$1.99238 \times 10^{-7}$$

PART B: $T=24$ hours per day and this corresponds to $\omega=7.27 \times 10^{-5}$ Rad/s.

$$T = 24. \cdot 60 \cdot 60;$$

$$f = 1 / T;$$

$$\omega = 2 \cdot \pi \cdot f$$

$$0.0000727221$$

■ Problem #16

An automobile engine slows down from 4500 rpm to 1200 rpm in 2.5 seconds. Calculate (a) its angular acceleration α assuming it is constant. 2π Rad = 1 Rev

$$\omega f = 1200. \cdot (2 \cdot \pi) ;$$

$$\omega 0 = 4500. \cdot (2 \cdot \pi) ;$$

$$t = 2.5;$$

$$\alpha = \frac{\omega f - \omega 0}{t}$$

$$-8293.8$$

The minus sign means there is a deceleration or slowing down.

Part (b) Calculate the total number of revolutions it makes in the time $t=2.5$ sec.

ANSWER:

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Douglas Brandt



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