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 an 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 × 1.2 m =1.9 m/s. The tangential acceleration is zero because it seems ω is constant (and α the angular acceleration is zero). The radial acceleration is $V_R=V^2/R=\omega^2R=2.96$ m/s^2 in the radial direction toward the center of the merry-go-round.

```
T = 4.0;
f = 1 / T;
ω = 2 * π * f
```

1.5708

```
R = 1.2;
V = ω * 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 is Rad/sec and $\omega=1.2 \times 10^{-7}$ Rad/s.

```
T = 365. * 24 * 60 * 60.;
f = 1 / T;
ω = 2 * π * f
```

1.99238×10^{-7}

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

```
T = 24. * 60 * 60;
f = 1 / T;
ω = 2 * π * 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

```
ωf = 1200. * (2 * π);
ω0 = 4500. * (2 * π);
t = 2.5;
α = (ωf - ω0) / t
```

−8293.8

The minus sign means there is a deceleration or slowing down.
Part (b) Calculate the total number of revolutions is makes in the time t=2.5 sec.
ANSWER:

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Liying Dong

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