

Homework Solutions  
**PHY 321 - Classical Mechanics I**  
[www.pa.msu.edu/courses/phy321](http://www.pa.msu.edu/courses/phy321)  
 Instructor: Scott Pratt, prattsc@pa.msu.edu

## 1 Chapter 1 Solutions

1. All physicists must become careful with thinking of oscillatory and wave mechanics in terms of expressions that include the form  $e^{i\omega t}$ .

(a) a)

$$\begin{aligned}\cos \omega t &= 1 - \frac{1}{2}(\omega t)^2 + \frac{1}{4!}(\omega t)^4 - \frac{1}{6!}(\omega t)^6 \dots \\ \sin \omega t &= (\omega t) - \frac{1}{3!}(\omega t)^3 + \frac{1}{5!}(\omega t)^5 \dots\end{aligned}$$

(b) b)

$$\begin{aligned}e^{i\omega t} &= 1 + i\omega t + \frac{1}{2}(i\omega t)^2 + \frac{1}{3!}(i\omega t)^3 + \frac{1}{4!}(i\omega t)^4 \dots \\ &= 1 + i^2 \frac{1}{2}(\omega t)^2 + i^3 \frac{1}{3!}(\omega t)^3 + i^4 \frac{1}{4!}(\omega t)^4 + i^5 \frac{1}{5!}(\omega t)^5 \dots + i\omega t + i^2 \frac{1}{2!}(\omega t)^2 + i^3 \frac{1}{3!}(\omega t)^3 + i^4 \frac{1}{4!}(\omega t)^4 + i^5 \frac{1}{5!}(\omega t)^5 \dots\end{aligned}$$

(c) c) Use fact that  $i^2 = -1$  and  $i^4 = 1$  then add expressions above for even and odd terms of expansions to see  $e^{i\omega t} = \cos \omega t + i \sin \omega t$ .

(d) d)

$$e^{i\pi} = \cos(\pi) + i \sin(\pi) = -1 \quad (1)$$

$$\ln(-1) = i\pi. \quad (2)$$

2. Find the angle between the vectors  $\vec{b} = (1, 2, 4)$  and  $\vec{c} = (-4, 2, 1)$  by evaluating their scalar product.

$$\begin{aligned}\vec{b} \cdot \vec{c} &= 1 + 4 + 4 = 12, \quad |\vec{b}| = \sqrt{1 + 4 + 16} = \sqrt{21}, \quad |\vec{c}| = \sqrt{16 + 4 + 1} = \sqrt{21} \\ \cos \theta_{bc} &= \frac{\vec{b} \cdot \vec{c}}{|\vec{b}| |\vec{c}|} = \frac{12}{21},\end{aligned} \quad (4)$$

$$\theta_{bc} = \cos^{-1}(4/7). \quad (5)$$

3. Use the chain rule to show that

$$\frac{d}{dt}(\vec{r} \cdot \vec{s}) = \frac{d\vec{r}}{dt} \cdot \vec{s} + \vec{r} \cdot \frac{d\vec{s}}{dt}.$$

Solution

$$\frac{d}{dt} \sum_i r_i s_i = \sum_i \frac{dr_i}{dt} s_i + r_i \frac{ds_i}{dt} \quad (6)$$

$$= \frac{d\vec{r}}{dt} \cdot \vec{s} + \vec{r} \cdot \frac{d\vec{s}}{dt}. \quad (7)$$

# Classical Mechanics Chapter Homework Solutions

**Jicheng Xie**



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