

PHY131H1F “Introduction to Physics I”

Answers to suggested End of Chapter Conceptual Questions in Knight Physics for Scientists and Engineers 3rd edition. I do not give the explanations. These are just meant to reassure you once you have reasoned through the question yourself. *Please try these first before referring to the answers!* If you notice any mistakes in these answers please contact me and I will fix it. - - Jason Harlow Sep. 29, 2012

1.1 (a) 3 (b) 2 (c) 4 (d) 3

1.7 position is negative, velocity is positive, acceleration is positive

2.8 (a) Yes, at 3 and 6 (b) Yes, between 4 and 5

2.10 Yes, if it is slowing down

2.12 (a) equal to g (b) equal to g (c) equal to g

4.4 (a) no (b) yes, at the top of the curved path

4.8 Ball 1 was thrown at a faster speed.

4.14 (a) $\omega+$, $\alpha+$ (b) $\omega-$, $\alpha+$ (c) $\omega+$, $\alpha-$ (d) $\omega-$, $\alpha-$

5.5 gravity (a) long range (b) Earth [also, if you don't neglect air resistance, there is drag (a) contact (b) air]

5.7 (a) 20 m/s^2 (b) 5 m/s^2 (c) 10 m/s^2

5.15 C

6.2 no

6.10 correct amount

6.16 yes

7.5 equal to

7.6 larger than

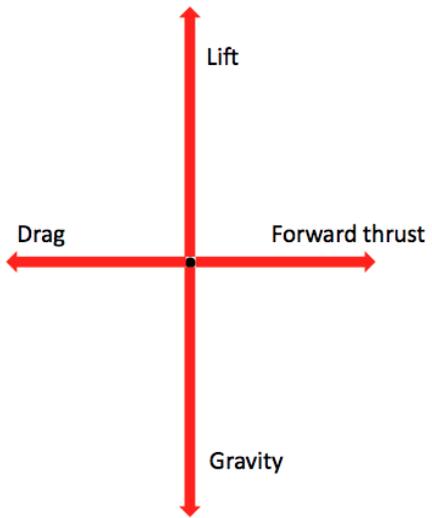
7.15 greater than

8.4 greater than

8.6 neither

8.7 (a) zero

8.7 (b)



8.7 (c)

