

Physics 22 Problem Set 3

Harry Nelson

due Monday, April 18 at 5pm

Course Announcements:

Read Chapter 17 of RHK4. We'll cover Chapter 18 next week.

PSR Fellows, who are advanced Physics Majors, are available to help you in the PSR Wed. & Thurs. from 6-8pm, and Sunday in 1640 Broida, 6-8pm.

1. RHK4 17.1
 2. RHK4 17.3
 3. RHK4 17.6. This one is a bit hard... you need to partition the sphere into stripes that share the same horizontal component of the force due to pressure, and do an integral.
 4. RHK4 17.12
 5. RHK4 17.14. This one is also involves some integrals. It is actually a bit easier than 17.6.
 6. RHK4 17.28. Here it is good to review section 17-3 first.
 7. RHK4 17.31
 8. RHK4 17.35
 9. RHK4 17.46. This problem and the next one involve a bit of thought about what information you *really* need. Think hard... good problems for starting out with symbols and then finding out what cancels.
 10. RHK4 17.48
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