1. Go to the Physics Department Office, Weniger 301, to get (optional, but strongly recommended) keys. You can get a plastic key card for the computer lab, WGR 412 ($5 non-refundable charge) and keys to Weniger Hall and WGR 304F ($5 each, refundable deposit). Alternatively, you may obtain a key to the SPS room if you join. The SPS key will also open 304F.

2. If you don't already have one, obtain a free ONID computer account at University Computing Services.

3. You will also need an account on the physics department computer cluster. Please make sure that your username on the physics cluster is the same as your username on ONID.
   (i) If you already have one, make sure you know your login and password. If you have forgotten your password, email support@physics.orst.edu and request your password. Make sure you give your full name, and identify yourself as a student in PH320.
   (ii) To request a new account, fill out the online request at http://www.physics.orst.edu/support. Once you have your account, make sure you change your password.
   (iii) From the same website read thoroughly the document on how to get started on the physics department computing cluster. Although the cluster is UNIX-based, terminals exhibit a desk-top type environment so you do not have to know much about UNIX.
   (iv) Find the online UNIX tutorial as a link from the page above, also at http://www.physics.orst.edu/~rubin/nacphy/UNIX/. Find and read the sections ethics and courtesy and anything else you find helpful.
   (v) Hopefully, the new computers in the classroom (Weniger 304) will be ready when we need them in class on Wednesday. Most likely you will use your ONID username and password to authenticate your login.
   (vi) Bring any questions you have to class on Wednesday.

4. Login to your preferred email account (this is where responses will go) and do two things:
   (i) Send us an email message (corinne@physics.oregonstate.edu and tevian@math.oregonstate.edu) that tells us a little bit about yourself. Why are you taking this course? What is unusual about you that you would like us to know? We will acknowledge your email.
   (ii) Register on the class email list by sending an email message to majordomo@physics.orst.edu. Leave the subject line blank. The body of the message should read subscribe paradigms. This is an automatic system. It is not intelligent. You will confuse it if you put anything into your message other than this line. You should receive email confirmation almost immediately. If you do not, you are not subscribed to the list. Try once more, and then consult us. When you are finished taking Paradigms classes, you may remove yourself from the list by sending a similar message that reads unsubscribe paradigms.
PRACTICE:

5. Write out the first four nonzero terms in the series:

a. \[ \sum_{n=0}^{\infty} \frac{1}{n!} \]

b. \[ \sum_{n=1}^{\infty} \frac{(-1)^n}{n!} \]

Write the following series using sigma \( \sum \) notation.

c. \[ 1 - 2\theta^2 + 4\theta^4 - 8\theta^6 + ... \]

   d. \[ \frac{1}{4} - \frac{1}{9} + \frac{1}{16} + ... \]