Unit 3 Day 2
Questions

1) **Fill in the Blank:** Radian measure is used to _____ certain formulas.
2) State the arc length formula given on p. 109 and clearly state what each variable represents.
3) What is the caution given on the bottom of p. 109?
4) Review Example 1a and 1b. Why does 144 have to be multiplied by π/180?
5) Draw Figure 7 on p. 110.
6) Latitude gives the measure of what according to your textbook?
7) What is the approximate radius of the Earth according to Ex. 2?
8) Explain how to find the north-south distance between Reno and Los Angeles?
9) Explain how to find the length of rope wound around the drum in Ex. 3.
10) Explain the three parts of Ex. 4.
11) What is a sector of a circle?
12) What is the formula for the area of a sector given on p. 112?
13) What caution does the textbook provide for these problems?
14) Verify that you get the same answer as Ex. 5 on your calculator. Have your partner sign off on your work.
15) What is longitude?
16) How far apart are arcs of longitude at the equator?
17) **Fill in the blank:** Determining longitude requires only an accurate measure of _____.
18) Complete p. 114 #19, 25, 27, and 39