Circle and Cylinder Worksheets

Problem #1

Find the area of a circle with a radius of 15 inches.

Problem #2

Find the area of the ring (the shaded area). Hint: subtract area of the smaller circle from the larger circle area.

Problem #3

Carpenters are going to use flexible board to form the circles in Problem #2. What is the circumference of each circle?
Problem #4

What is the volume of a cylindrical drum used for storing kerosene that has a diameter of 2 ft. 6 in. and is 4 ft. long? (Round to the nearest cubic foot.)

Problem #5

Water pipes with an outside diameter of 1 in. are to be insulated with a thin sheet of foam. Assuming no waste or overlap, how many square inches of foam is needed to cover pipes that are 40 feet long?

Problem #6

A drilled well has a diameter 3 ft. The water standing in the well is 200 ft. deep. How many gallons of water are in the well? (1 ft$^3 =$7.5 gal)