1. Find the surface area of each shape. Label each diagram and show your work. Use 3.14 for \( \pi \) and round your answers to the nearest tenth if needed.

a. 

b. 

c. 

d. 

3. To mail a poster, you bought a cardboard tube that closes on both sides. The poster is a present, so you want to decorate the tube by covering it in wrapping paper. How many square inches of wrapping paper do you need if the tube has radius 3 inches and length 15 inches?

4. For an art project, you want to paint a whole windowless room pink, including the floor and ceiling. The room is 12 feet long, 10 feet wide, and 8 feet high. You will not paint the door, which measures 3 feet by 7 feet. What is the total surface area that you will paint?