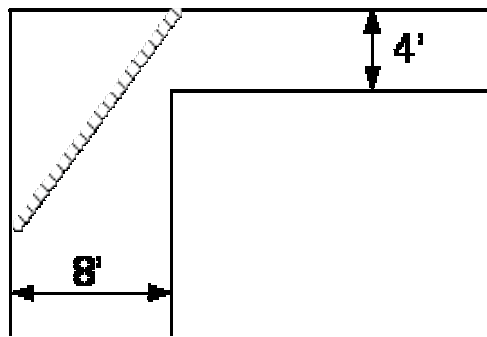


Welcome back!

1. Demonstrate how to use the *shell method* to show that the volume of a sphere (with radius R) is

$$V = \frac{4}{3}\pi R^3$$

2. One hallway which is 4 feet wide meets another hallway which is 8 feet wide in a right angle. What is the length of a the longest ladder which can be carried horizontally around the corner?



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