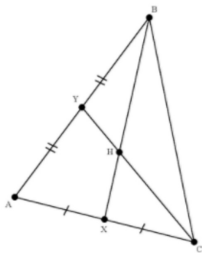


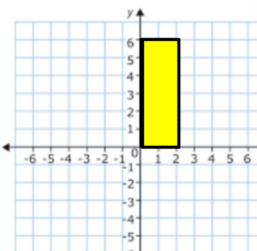
Two cones are similar. Their heights have a ratio of 4:3. What is the ratio of their volumes?

The volume of the right circular cylinder is 100π cubic inches. If its height is 5 in., what is its radius in inches?



If the length of BH is 6 units, what is the length of BX?

A sphere is inside a cube with dimensions 6 in. by 6 in. by 6 in. What is the difference in the two volumes? Round to nearest tenth



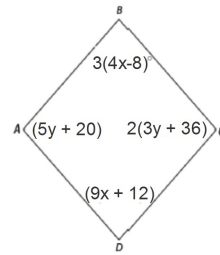
Use the figure to answer the question. If the yellow rectangle is rotated about the y axis, what 3 dimensional figure would be formed?

What are the radius and height?

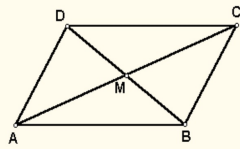
A dairy farmer stores milk in a stainless steel cylindrical tank. The tank is 8.3 feet tall and has a radius of 4.5 feet. The density of 2% milk is about 29.17 kg/ft^3 . What is the approximate weight of the milk in the tank?

If the radius of a sphere is cut in half, how will the volume of the original sphere and the new sphere compare?

Find the values of x and y if quadrilateral $ABCD$ is a parallelogram.

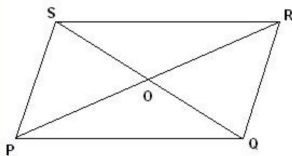


$\overline{AM} = 2x - 28$ and $\overline{CM} = 3(x + 7)$, what is the length of \overline{AM} ?



What is the volume of a cone that has a circumference of 70 feet and a height of 7 feet?

$\overline{SO} = 5x - 10$ and $\overline{SQ} = 12x - 32$, find x .



A square pyramid has a base with equal lengths of 5 meters. The volume of the pyramid is approximately 59.2 m^3 . What is the height of the pyramid to the nearest meter?