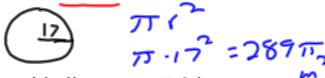
Warm Up

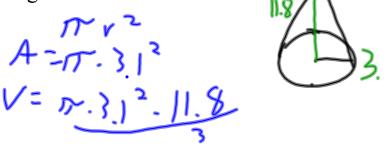
1. Find the area of the circle with radius = 17 m.



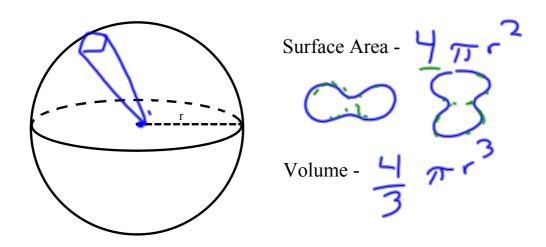
2. Find the area of the circle with diameter = 7.8 in.



3. Find the volume of the cone with radius 3.1 cm and height 11.8 cm.

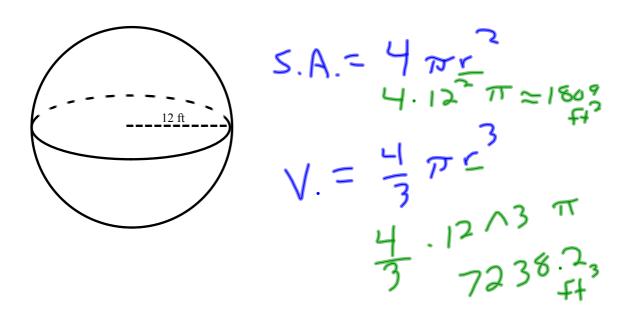


12-6 SPHERES



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Ex 1 Find the surface area and volume of the sphere.



Ex 2 Find the surface area and volume of the sphere.

8 in.

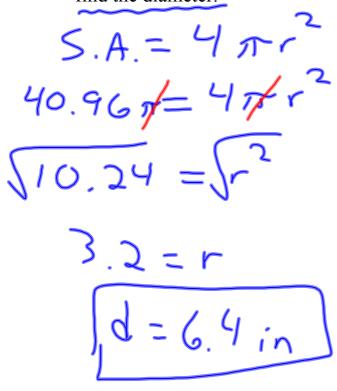
$$5.A = 4.8^{2.57}$$

 ≈ 804 in
 $v = \frac{4}{3}.8^{3.57}$
 $\approx 3.44.7$ in

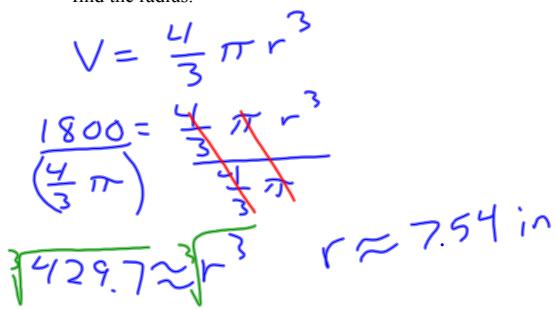
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Ex 3 If the surface area of a sphere is 40.9π in², find the diameter.



Ex 4 If the volume of a sphere is 1800 in, find the radius.



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Ex 5 Find the surface area and the volume of the ice cream and the cone.

radius is 4.9 cm

height of the cone is 12.6 cm

