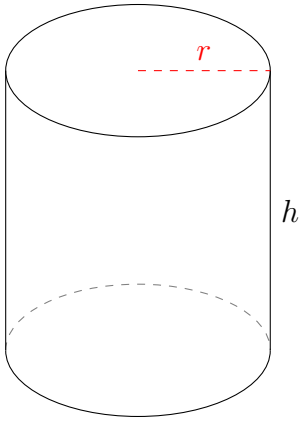
Area and Volume of Cylinders (H)

Calculate the surface area and volume for each cylinder.

Surface Area $= (\pi r^2 \times 2) + (\pi d \times h)$ Volume $= \pi r^2 \times h$ $d = 2r$

1.

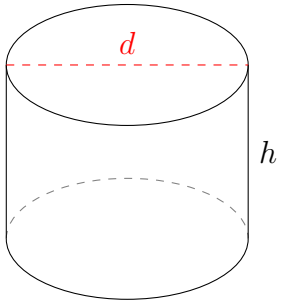


$r = 1.75$ mi $h = 3.7$ mi

Surface Area =

Volume =

2.

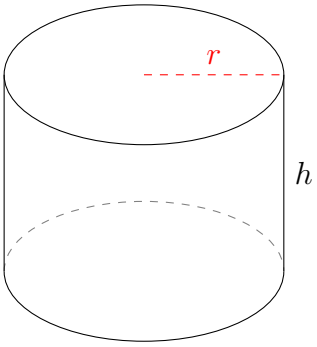


$d = 3.2$ nm $h = 2.3$ nm

Surface Area =

Volume =

3.

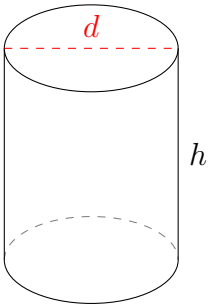


$r = 1.85$ ft $h = 2.6$ ft

Surface Area =

Volume =

4.



$d = 2.3$ nm $h = 2.8$ nm

Surface Area =

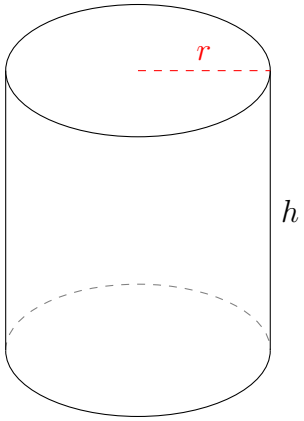
Volume =

Area and Volume of Cylinders (H) Answers

Calculate the surface area and volume for each cylinder.

Surface Area $= (\pi r^2 \times 2) + (\pi d \times h)$ Volume $= \pi r^2 \times h$ $d = 2r$

1.

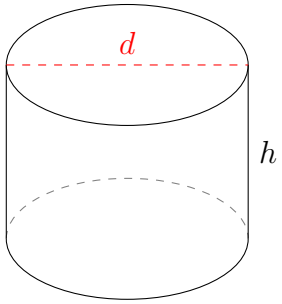


$r = 1.75$ mi $h = 3.7$ mi

Surface Area $= 59.93$ mi^2

Volume $= 35.6$ mi^3

2.

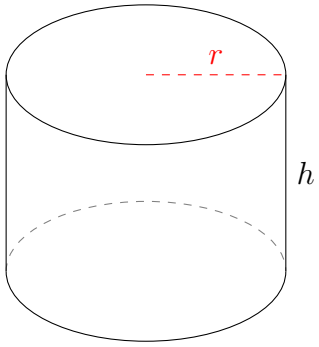


$d = 3.2$ nm $h = 2.3$ nm

Surface Area $= 39.21$ nm^2

Volume $= 18.5$ nm^3

3.

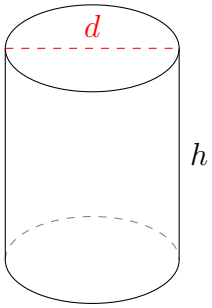


$r = 1.85$ ft $h = 2.6$ ft

Surface Area $= 51.73$ ft^2

Volume $= 27.96$ ft^3

4.



$d = 2.3$ nm $h = 2.8$ nm

Surface Area $= 28.54$ nm^2

Volume $= 11.63$ nm^3