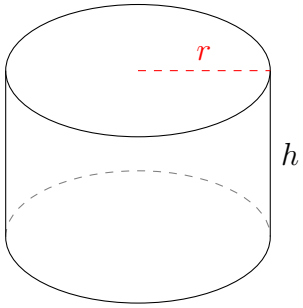
Area and Volume of Cylinders (A)

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.

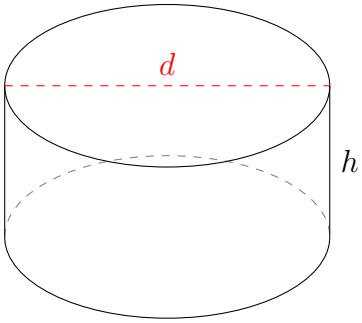


$r = 1.75$ in $h = 2.2$ in

Surface Area =

Volume =

2.

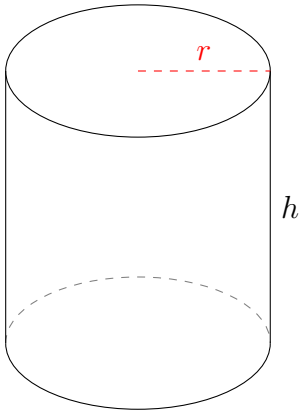


$d = 4.3$ nm $h = 2$ nm

Surface Area =

Volume =

3.

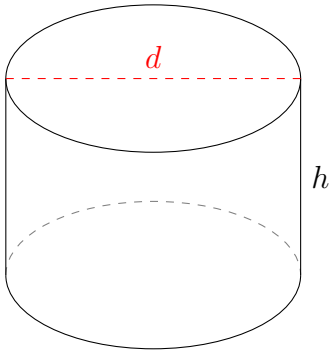


$r = 1.75$ cm $h = 3.6$ cm

Surface Area =

Volume =

4.



$d = 3.9$ nm $h = 2.6$ nm

Surface Area =

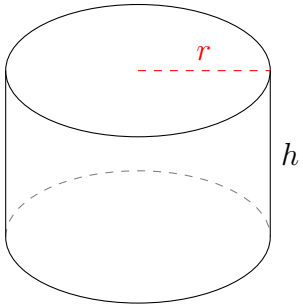
Volume =

Area and Volume of Cylinders (A) 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.

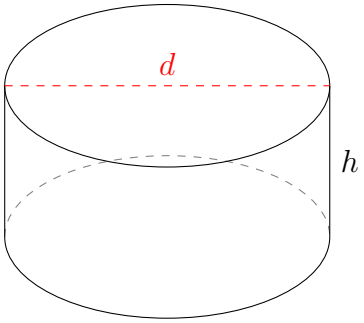


$r = 1.75$ in $h = 2.2$ in

Surface Area $= 43.43$ in^2

Volume $= 21.17$ in^3

2.

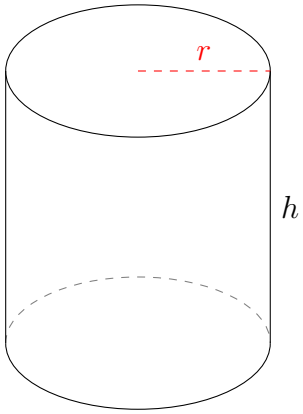


$d = 4.3$ nm $h = 2$ nm

Surface Area $= 56.06$ nm^2

Volume $= 29.04$ nm^3

3.

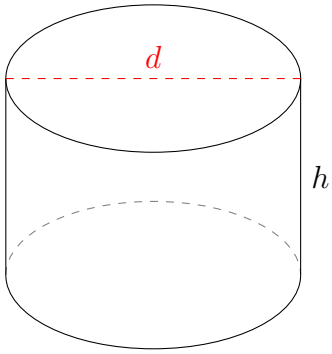


$r = 1.75$ cm $h = 3.6$ cm

Surface Area $= 58.83$ cm^2

Volume $= 34.64$ cm^3

4.



$d = 3.9$ nm $h = 2.6$ nm

Surface Area $= 55.75$ nm^2

Volume $= 31.06$ nm^3