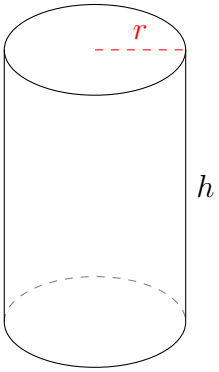
Area and Volume of Cylinders (A)

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.

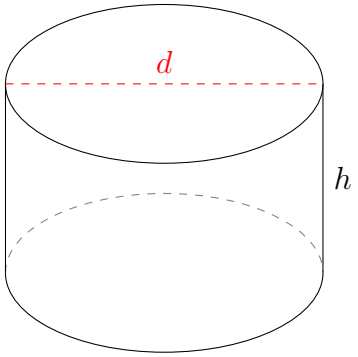


$r = 1.2$ km $h = 3.6$ km

Surface Area =

Volume =

2.

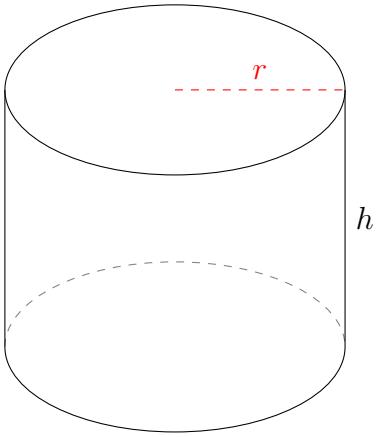


$d = 12.6$ cm $h = 7.5$ cm

Surface Area =

Volume =

3.

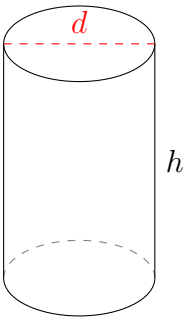


$r = 18$ ft $h = 27.2$ ft

Surface Area =

Volume =

4.



$d = 12$ m $h = 18.6$ m

Surface Area =

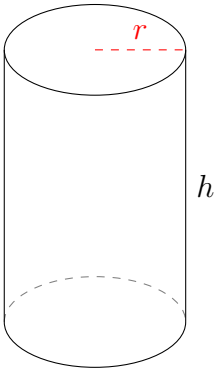
Volume =

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.

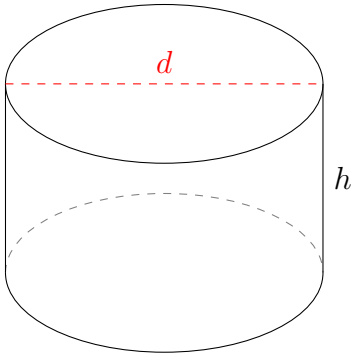


$r = 1.2$ km $h = 3.6$ km

Surface Area $= 36.19$ km^2

Volume $= 16.29$ km^3

2.

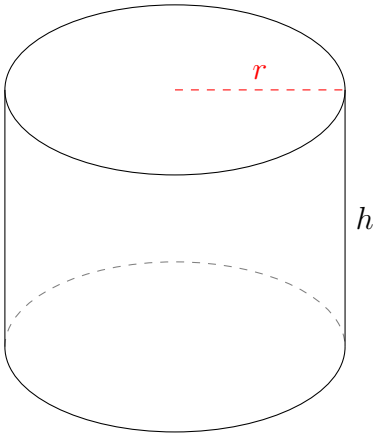


$d = 12.6$ cm $h = 7.5$ cm

Surface Area $= 546.26$ cm^2

Volume $= 935.17$ cm^3

3.

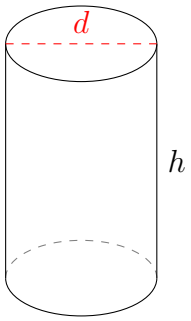


$r = 18$ ft $h = 27.2$ ft

Surface Area $= 5112$ ft^2

Volume $= 27{,}686.23$ ft^3

4.



$d = 12$ m $h = 18.6$ m

Surface Area $= 927.4$ m^2

Volume $= 2103.61$ m^3