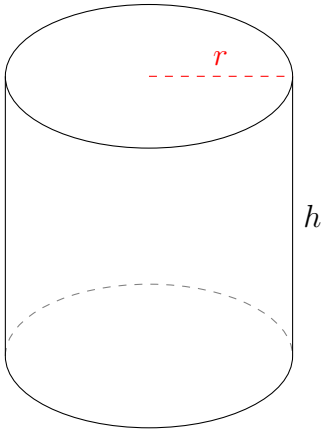
Area and Volume of Cylinders (F)

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.

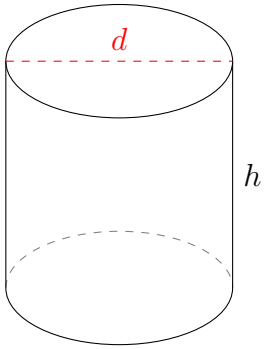


$r = 15.2$ km $h = 29.6$ km

Surface Area =

Volume =

2.

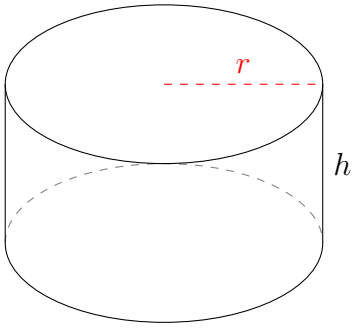


$d = 24$ km $h = 24$ km

Surface Area =

Volume =

3.

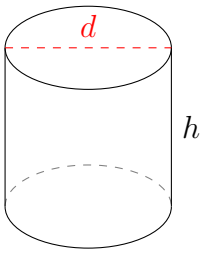


$r = 2.1$ ft $h = 2.1$ ft

Surface Area =

Volume =

4.



$d = 13.2$ km $h = 12.6$ km

Surface Area =

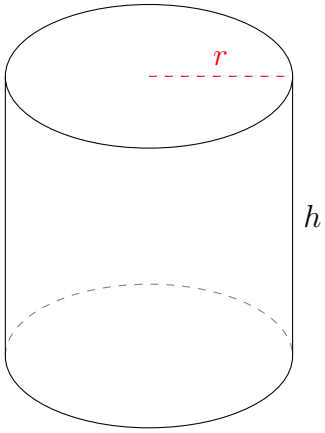
Volume =

Area and Volume of Cylinders (F) 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.

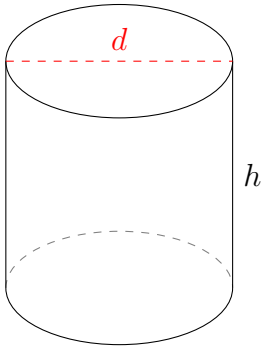


$r = 15.2$ km $h = 29.6$ km

Surface Area $= 4278.6$ km^2

Volume $= 21{,}484.67$ km^3

2.

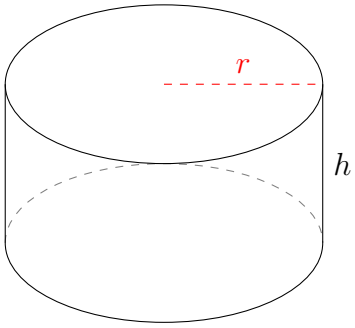


$d = 24$ km $h = 24$ km

Surface Area $= 2714.34$ km^2

Volume $= 10{,}857.34$ km^3

3.

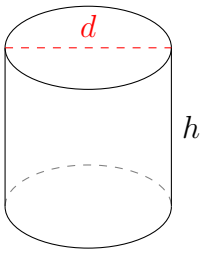


$r = 2.1$ ft $h = 2.1$ ft

Surface Area $= 55.42$ ft^2

Volume $= 29.09$ ft^3

4.



$d = 13.2$ km $h = 12.6$ km

Surface Area $= 796.21$ km^2

Volume $= 1724.28$ km^3