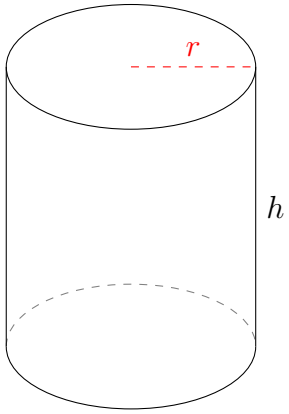
Area and Volume of Cylinders (J)

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.

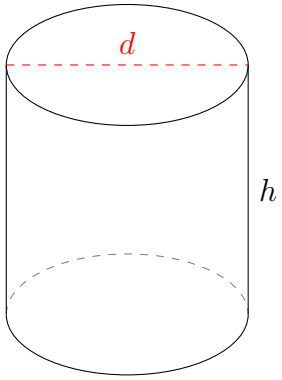


$r = 3.3$ cm $h = 7.4$ cm

Surface Area =

Volume =

2.

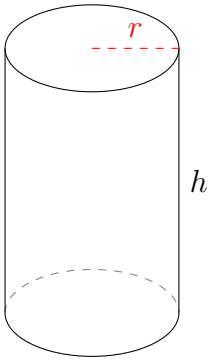


$d = 25.6$ in $h = 26.4$ in

Surface Area =

Volume =

3.

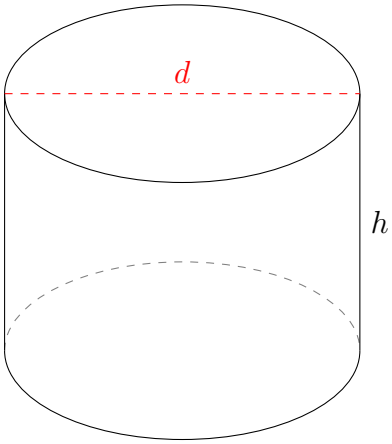


$r = 1.15$ in $h = 3.5$ in

Surface Area =

Volume =

4.



$d = 28.2$ ft $h = 20.4$ ft

Surface Area =

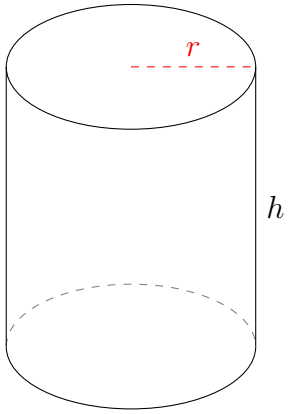
Volume =

Area and Volume of Cylinders (J) 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.

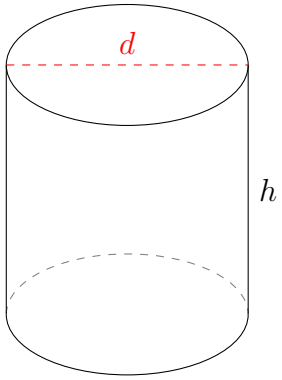


$r = 3.3$ cm $h = 7.4$ cm

Surface Area $= 221.86$ cm^2

Volume $= 253.17$ cm^3

2.

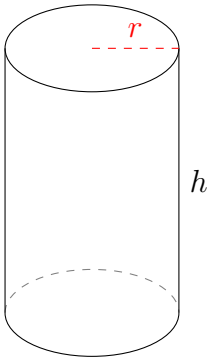


$d = 25.6$ in $h = 26.4$ in

Surface Area $= 3152.65$ in^2

Volume $= 13{,}588.57$ in^3

3.

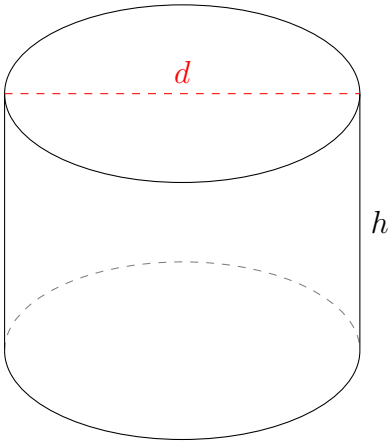


$r = 1.15$ in $h = 3.5$ in

Surface Area $= 33.6$ in^2

Volume $= 14.54$ in^3

4.



$d = 28.2$ ft $h = 20.4$ ft

Surface Area $= 3056.46$ ft^2

Volume $= 12{,}741.43$ ft^3