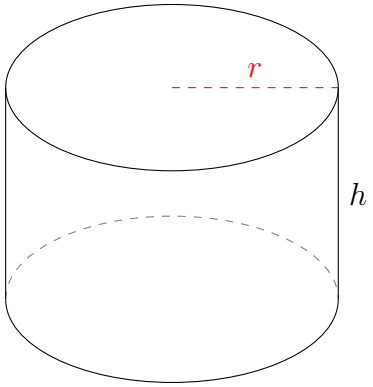
Area and Volume of Cylinders (E)

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.

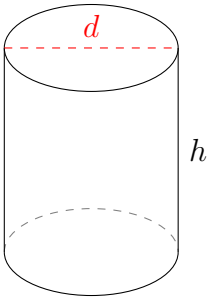


$r = 17.6$ cm $h = 22.4$ cm

Surface Area =

Volume =

2.

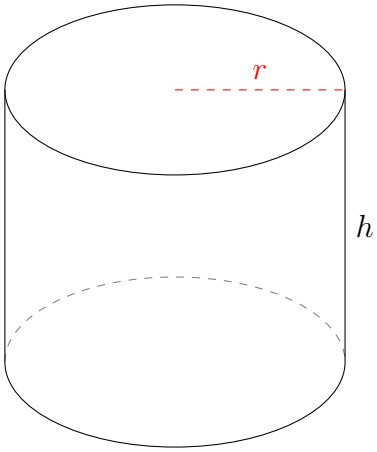


$d = 9.2$ ft $h = 10.8$ ft

Surface Area =

Volume =

3.

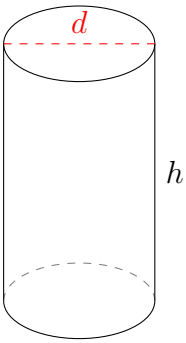


$r = 9$ yd $h = 14.4$ yd

Surface Area =

Volume =

4.



$d = 4$ ft $h = 6.8$ ft

Surface Area =

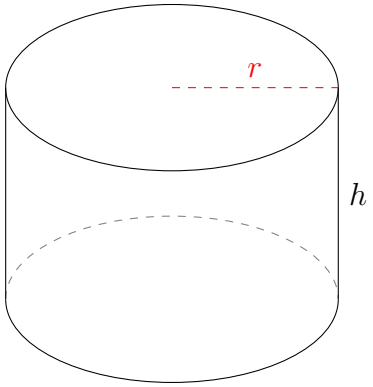
Volume =

Area and Volume of Cylinders (E) 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.

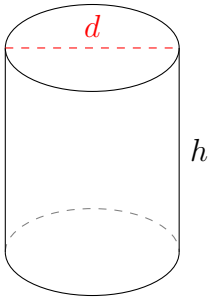


$r = 17.6$ cm $h = 22.4$ cm

Surface Area $= 4423.36$ cm^2

Volume $= 21{,}798.33$ cm^3

2.

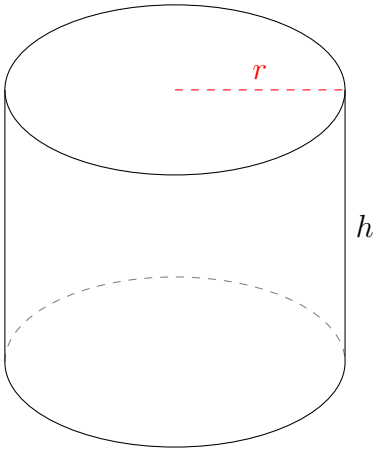


$d = 9.2$ ft $h = 10.8$ ft

Surface Area $= 445.1$ ft^2

Volume $= 717.94$ ft^3

3.

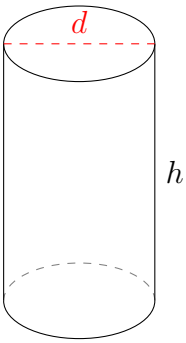


$r = 9$ yd $h = 14.4$ yd

Surface Area $= 1323.24$ yd^2

Volume $= 3664.35$ yd^3

4.



$d = 4$ ft $h = 6.8$ ft

Surface Area $= 110.58$ ft^2

Volume $= 85.45$ ft^3