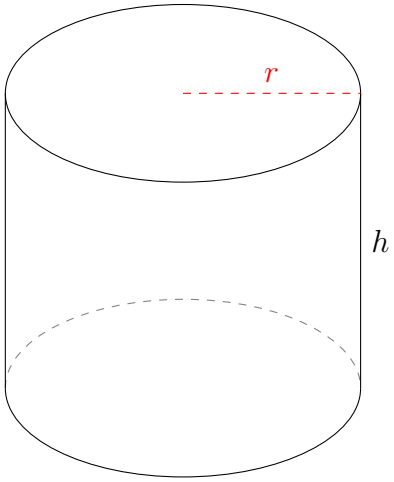
Area and Volume of Cylinders (C)

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.

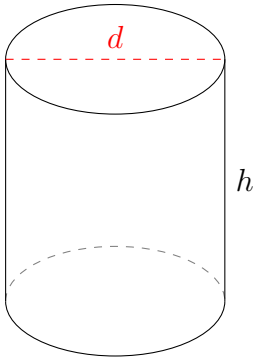


$r = 2.35$ ft $h = 3.9$ ft

Surface Area =

Volume =

2.

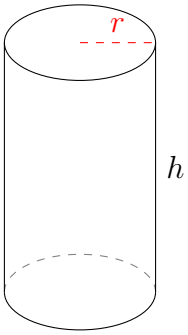


$d = 2.9$ in $h = 3.2$ in

Surface Area =

Volume =

3.

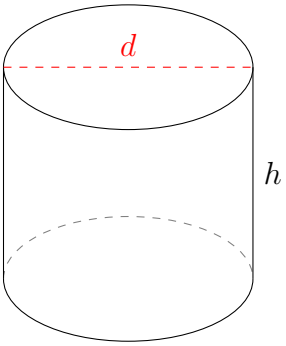


$r = 1$ yd $h = 3.3$ yd

Surface Area =

Volume =

4.



$d = 3.3$ ft $h = 2.8$ ft

Surface Area =

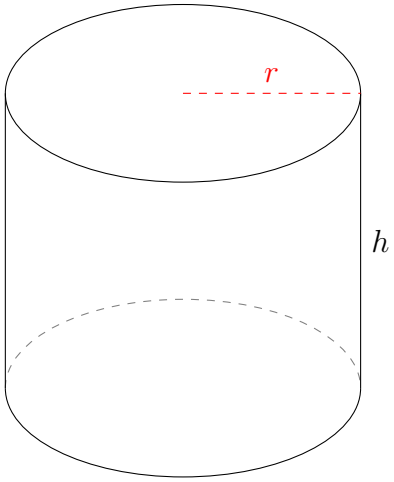
Volume =

Area and Volume of Cylinders (C) 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.

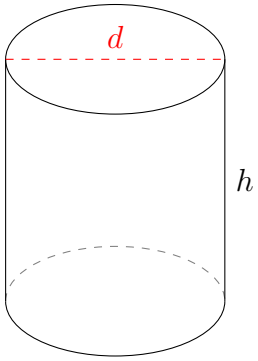


$r = 2.35$ ft $h = 3.9$ ft

Surface Area $= 92.28$ ft^2

Volume $= 67.66$ ft^3

2.

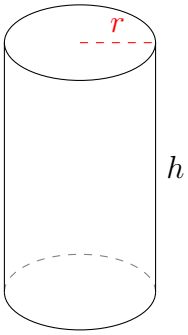


$d = 2.9$ in $h = 3.2$ in

Surface Area $= 42.36$ in^2

Volume $= 21.14$ in^3

3.

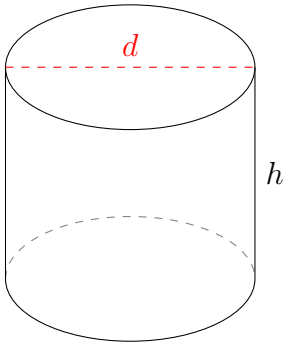


$r = 1$ yd $h = 3.3$ yd

Surface Area $= 27.02$ yd^2

Volume $= 10.37$ yd^3

4.



$d = 3.3$ ft $h = 2.8$ ft

Surface Area $= 46.13$ ft^2

Volume $= 23.95$ ft^3