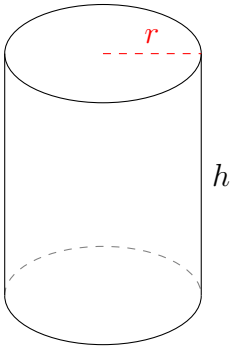
Area and Volume of Cylinders (B)

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.

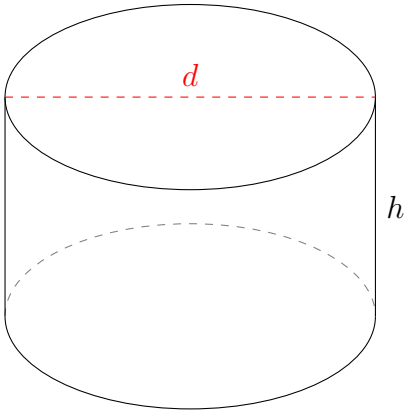


$r = 1.3$ AU $h = 3.2$ AU

Surface Area =

Volume =

2.

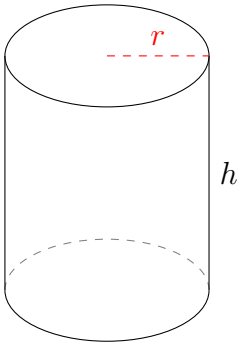


$d = 4.9$ yd $h = 2.9$ yd

Surface Area =

Volume =

3.

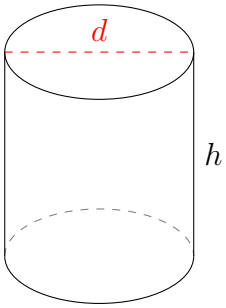


$r = 1.35$ yd $h = 3.1$ yd

Surface Area =

Volume =

4.



$d = 2.5$ in $h = 2.7$ in

Surface Area =

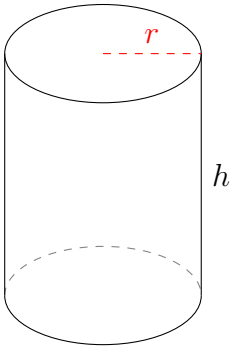
Volume =

Area and Volume of Cylinders (B) 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.

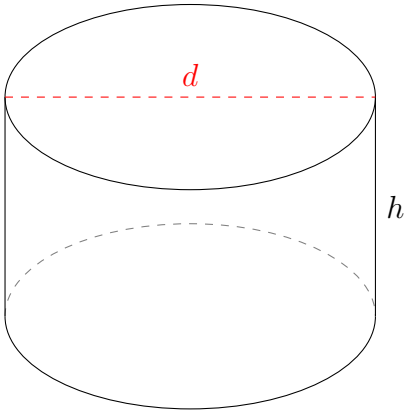


$r = 1.3$ AU $h = 3.2$ AU

Surface Area $= 36.76$ AU^2

Volume $= 16.99$ AU^3

2.

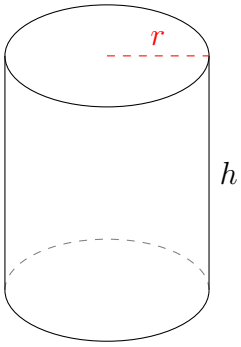


$d = 4.9$ yd $h = 2.9$ yd

Surface Area $= 82.36$ yd^2

Volume $= 54.69$ yd^3

3.

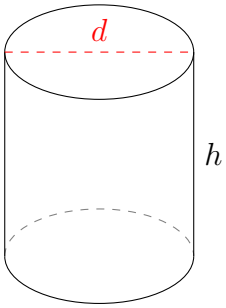


$r = 1.35$ yd $h = 3.1$ yd

Surface Area $= 37.75$ yd^2

Volume $= 17.75$ yd^3

4.



$d = 2.5$ in $h = 2.7$ in

Surface Area $= 31.02$ in^2

Volume $= 13.25$ in^3