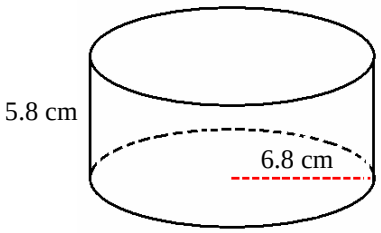
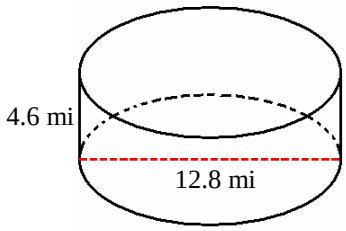
Volume and Surface Area of Cylinders

Instructions: Find the volume and surface area for each cylinder.

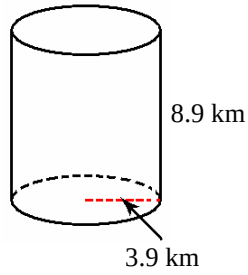
1)



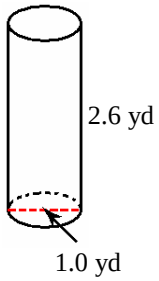
2)



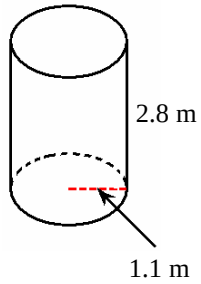
3)



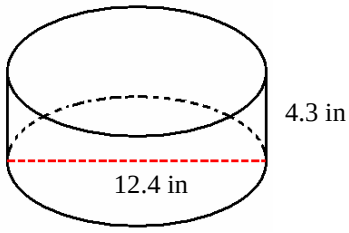
4)



5)



6)

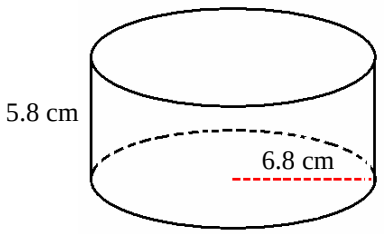


Volume and Surface Area of Cylinders Answer

Instructions: Find the volume and surface area for each cylinder.

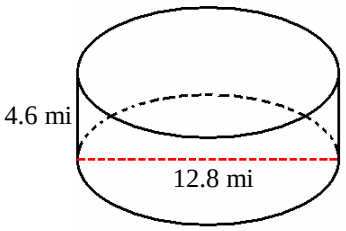
Formula: Volume (V) = $\pi r^2 h$, Surface Area (A) = $2\pi r(r+h)$, π = 3.14

1)



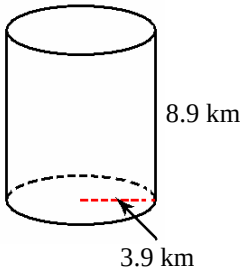
V = 3.14x6.8x6.8x5.8 = 842.1 cm^3
A = (2x3.14x6.8)x(6.8+5.8) = 538.1 cm^2

2)



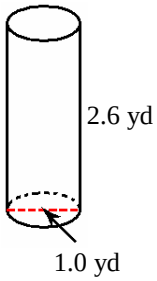
V = 3.14x6.4x6.4x4.6 = 591.6 mi^3
A = (2x3.14x6.4)x(6.4+4.6) = 442.1 mi^2

3)



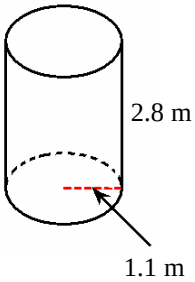
V = 3.14x3.9x3.9x8.9 = 425.1 km^3
A = (2x3.14x3.9)x(3.9+8.9) = 313.5 km^2

4)



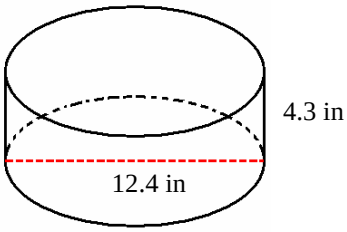
V = 3.14x0.5x0.5x2.6 = 2.0 yd^3
A = (2x3.14x0.5)x(0.5+2.6) = 9.7 yd^2

5)



V = 3.14x1.1x1.1x2.8 = 10.6 m^3
A = (2x3.14x1.1)x(1.1+2.8) = 26.9 m^2

6)



V = 3.14x6.2x6.2x4.3 = 519.0 in^3
A = (2x3.14x6.2)x(6.2+4.3) = 408.8 in^2