Assignment

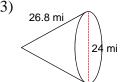
Find the lateral area and surface area of each right circular cylinder and cone. Round your answers to the nearest tenth, if necessary. Leave your answers in terms of π for answers that contain π .

1)



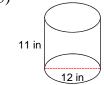
 $270.6\pi \text{ in}^2$; $391.6\pi \text{ in}^2$

3)



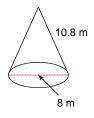
 $321.6\pi \text{ mi}^2$; $465.6\pi \text{ mi}^2$

5)



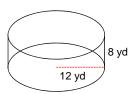
 $132\pi \text{ in}^2$; $204\pi \text{ in}^2$

7)



 43.2π m²; 59.2π m²

2)



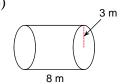
 $192\pi \text{ yd}^2$; $480\pi \text{ yd}^2$

4)



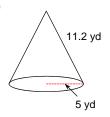
28π mi²; 36π mi²

6)



 $48\pi \text{ m}^2$; $66\pi \text{ m}^2$

8)



 $56\pi \text{ yd}^2$; $81\pi \text{ yd}^2$

Find the surface area of each right circular cylinder and cone. Round your answers to the nearest tenth, if necessary. Leave your answers in terms of π for answers that contain π .

9) A cylinder with a radius of 3 in and a height of 2 in.

 $30\pi \text{ in}^2$

11) A cylinder with a diameter of 6 in and a height of 8 in.

 $66\pi \text{ in}^2$

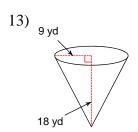
10) A cone with diameter 16 cm and a slant height of 17.9 cm.

 $207.2\pi \text{ cm}^2$

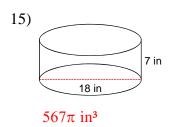
12) A cone with radius 2 mi and a slant height of 11.2 mi.

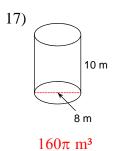
 $26.4\pi \text{ mi}^2$

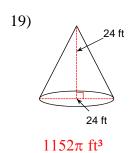
Find the volume of each right circular cylinder and cone. Round your answers to the nearest tenth, if necessary. Leave your answers in terms of π for answers that contain π .



 $486\pi\ yd^3$

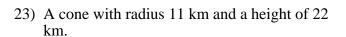




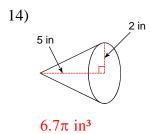


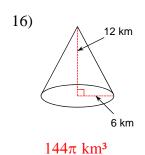
21) A cone with diameter 18 yd and a height of 18 yd.

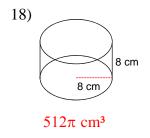
 $486\pi \text{ yd}^3$

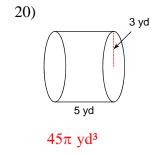


 $887.3\pi \text{ km}^3$









22) A cylinder with a radius of 5 yd and a height of 5 yd.

 $125\pi \text{ yd}^3$

24) A cylinder with a diameter of 4 km and a height of 4 km.

 $16\pi \text{ km}^3$