1-6 Find the volume in terms of pi and give the approximate volume using pi = 3.14 rounded to the hundredth place. Remember to write the formula on each problem.

1)
21 cm
13 cm

2)
31 in
50 in

3)
28 m
15 m

4)
30 ft
52 ft

5)
19 cm
9 cm

6)
23 m
16 m
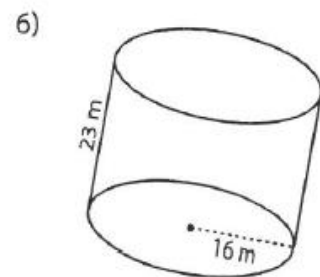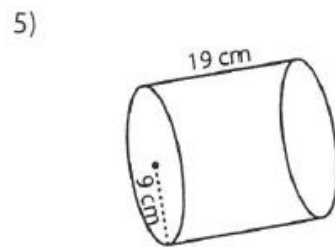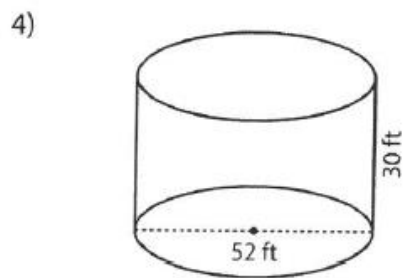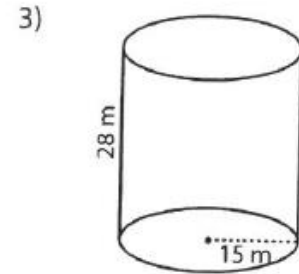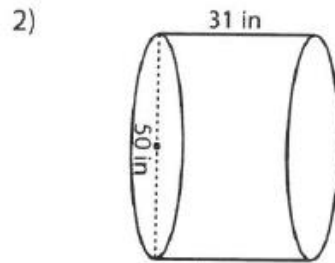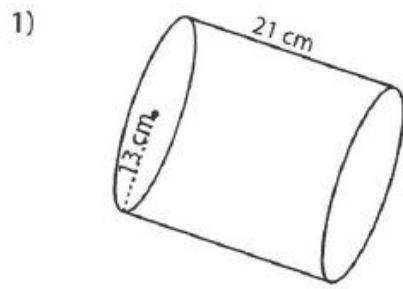
Find the missing measurement. Use 3.14 for pi and round to the nearest hundredth when needed. Remember to write the formula for each problem.

7.   Find the **height** of a cylinder with a volume of 30 in³ and a radius of 1 in.

8. Find the **height** of a cylinder with a volume of 100 cm³ and a radius of 2 cm.

9. Find the **radius** of a cylinder with a volume of 950 in³ and a height of 10 in.

10. Find the **height** of a cylinder with a volume of 720π ft³ and a radius of 6 ft.

11. Find the **radius** of a cylinder with a volume of 208 cm^3 and a height of 4 cm.

12. Find the **height** of a cylinder with a volume of 1215π mm^3 and a radius of 9mm.

13. Find the **radius** of a cylinder with a volume of 108π ft^3 and a height of 12 ft.

14. Find the **radius** of a cylinder with a volume of 686 mm^3 and a height of 14 mm.

15. Find the **volume** of a cylinder shaped jar that has a radius of 2 cm and a height of 6 cm. Find the volume in terms of pi and the approximate volume using 3.14 for pi.

16. A cross section of a pipe is 9cm wide and is 13 cm long. What is the **volume**? Find the volume in terms of pi and the approximate volume using 3.14 for pi.