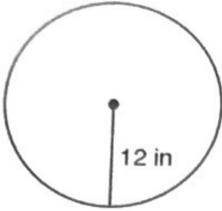


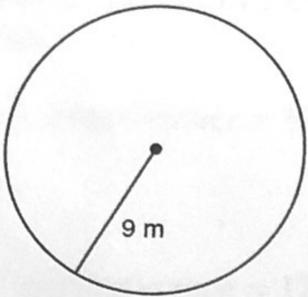
D3 HW

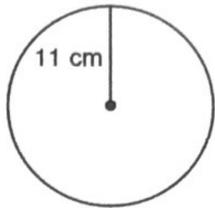
Circumference and Area of Circles

Find the area of each. Use your calculator's value of π . Round your answer to the nearest tenth.

1)  $C = 75.36 \text{ in}$
 $A = 452.16 \text{ in}^2$

2)  $C = 87.92 \text{ km}$
 $A = 615.44 \text{ km}^2$

3)  $C = 56.52 \text{ m}$
 $A = 254.34 \text{ m}^2$

4)  $C = 69.08 \text{ cm}$
 $A = 379.94$

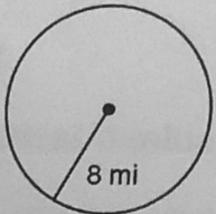
5) radius = 2.6 in $C = 16.34 \text{ in}$
 $A = 21.23 \text{ in}^2$

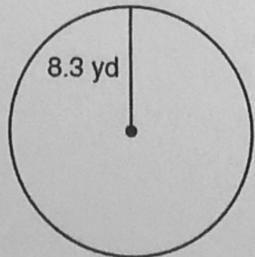
6) radius = 34.1 in $C = 214.15 \text{ in}$
 $A = 3651.22 \text{ in}^2$

7) radius = 13.2 km

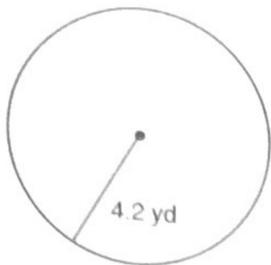
8) radius = 29.9 km

Find the circumference of each circle. Use your calculator's value of π . Round your answer to the nearest tenth.

9)  $C = 50.24 \text{ m}$

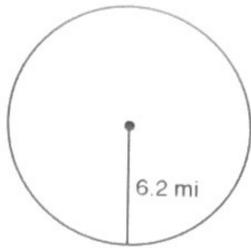
10)  $C = 52.12 \text{ yd}$

11)



$$26.38 \text{ yd}$$

12)



$$38.94 \text{ mi}$$

13) radius = 5.2 ft

$$32.66 \text{ ft}$$

14) radius = 11.1 ft

$$69.71 \text{ ft}$$

15) radius = 9.5 in

16) radius = 9.3 in

Find the radius of each circle. Use your calculator's value of π . Round your answer to the nearest tenth.

17) circumference = 62.8 mi

$$62.8 = 2\pi r$$

$$r = 10 \text{ mi}$$

18) circumference = 69.1 yd

$$69.1 = 2\pi r$$

$$11.00 \text{ yd}$$

19) circumference = 12.6 yd

$$2.00$$

20) circumference = 25.1 ft

$$3.99 \text{ ft}$$

Find the diameter of each circle. Use your calculator's value of π . Round your answer to the nearest tenth.

21) area = 201.1 in²

$$201.1 = \pi r^2$$

$$64.046 = r^2$$

$$r = 8.003 \quad d = 16.006$$

22) area = 78.5 ft²

$$78.5 = \pi r^2$$

$$r = 5 \quad d = 10$$

Find the circumference of each circle.

23) area = 64π mi²

$$64\pi = \pi r^2$$

$$r = 8$$

$$C = 50.24 \text{ mi}$$

24) area = 16π in²

$$16\pi = \pi r^2$$

$$r = 4$$

$$C = 25.12 \text{ in}$$

Find the area of each.

25) circumference = 6π yd

$$6\pi = 2\pi r$$

$$r = 3$$

$$A = 28.26 \text{ yd}^2$$

26) circumference = 22π in

$$22\pi = 2\pi r$$

$$11 = r$$

$$A = 379.94 \text{ in}^2$$

Critical thinking question:

27) Find the radius of a circle so that its area and circumference have the same value.