

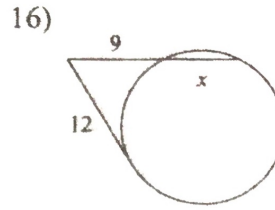
$$4(4+6) = 5(5+x)$$

$$4(10) = 25 + 5x$$

$$40 = 25 + 5x$$

$$15 = 5x$$

$$\boxed{5 = x}$$

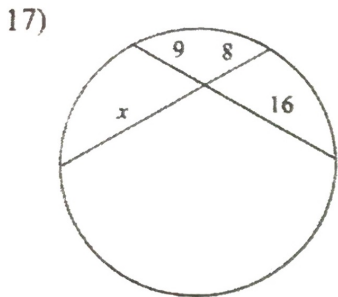


$$12^2 = 9(9+x)$$

$$144 = 81 + 9x$$

$$63 = 9x$$

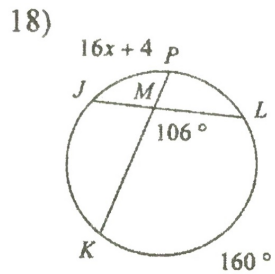
$$\boxed{7 = x}$$



$$9 \cdot 16 = 8x$$

$$144 = 8x$$

$$\boxed{18 = x}$$

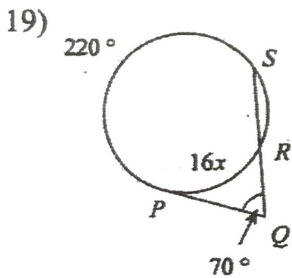


$$\frac{(16x+4) + 160}{2} = 106$$

$$16x + 164 = 212$$

$$16x = 48$$

$$\boxed{x = 3}$$

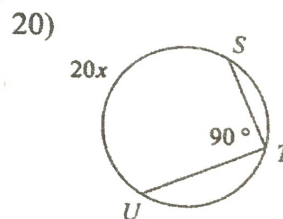


$$\frac{220 - 16x}{2} = 70$$

$$220 - 16x = 140$$

$$-16x = -80$$

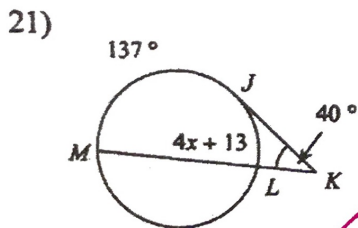
$$\boxed{x = 5}$$



$$20x = 2(90)$$

$$20x = 180$$

$$\boxed{x = 9}$$



$$\frac{137 - (4x+13)}{2} = 40$$

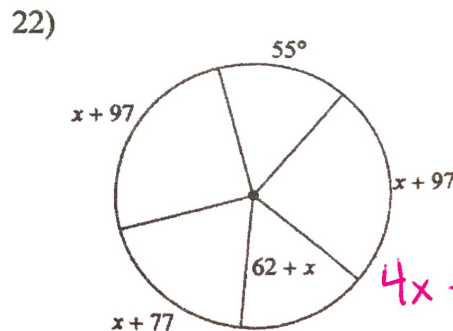
$$137 - 4x - 13 = 80$$

$$124 - 4x = 80$$

$$-4x = -44$$

$$\boxed{x = 11}$$

Solve for x. Assume that lines which appear to be diameters are actual diameters.



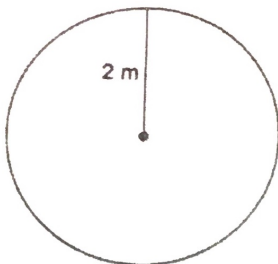
$$4x + 333 = 305$$

$$4x = -28$$

$$\boxed{x = -7}$$

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

23)



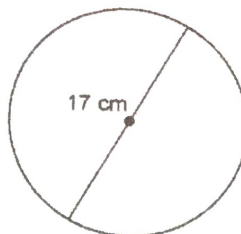
$$2\pi(2)$$

$$4\pi$$

$$\boxed{12.6}$$

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

24)



$$\pi r^2$$

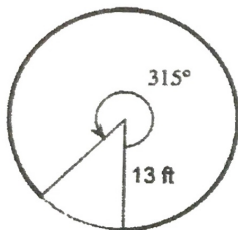
$$\pi (8.5)^2$$

$$72.25\pi$$

$$\approx \boxed{227}$$

Find the length of each arc. Round your answers to the nearest tenth.

25)

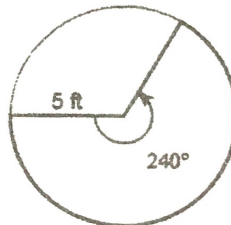


$$\frac{x}{26\pi} = \frac{315}{360} = \boxed{71.5}$$

$$\frac{x}{26\pi} = \frac{45}{360} = \boxed{10.2}$$

Find the area of each sector. Round your answers to the nearest tenth.

26)



$$\frac{x}{25\pi} = \frac{240}{360} = \boxed{52.4}$$

$$\frac{x}{25\pi} = \frac{120}{360} = \boxed{26.2}$$