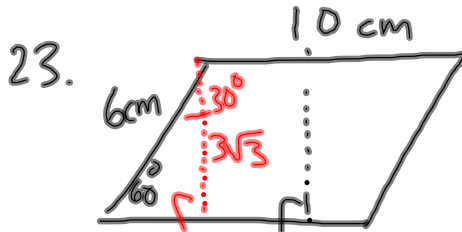


$$10. \quad A_{\square} = bh$$

$$= 1 \cdot 2$$

$$= 2f^2$$



$$A_{\square} = bh$$

$$= 10 \cdot 3\sqrt{3}$$

$$= 30\sqrt{3}$$

$$\frac{2x}{2} = \frac{6}{2}$$

$$x = 3$$

$$6. \quad A_{Trop} = \frac{1}{2}h(b_1 + b_2)$$

$$48x + 68 = \frac{1}{2}(8)(b_1 + (9x + 12))$$

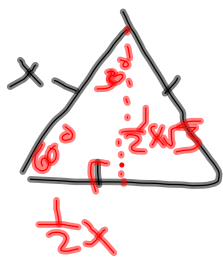
$$\frac{48x + 68}{4} = \frac{4(b_1 + 9x + 12)}{4}$$

$$12x + 17 = b_1 + 9x + 12$$

$$\begin{array}{r} -9x \quad -12 \\ \hline 3x + 5 = b_1 \end{array}$$

$$3x + 5 = b_1$$

26.



$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2} \times \left(\frac{1}{2}x\sqrt{3} \right)$$

$$= \frac{x^2\sqrt{3}}{4}$$

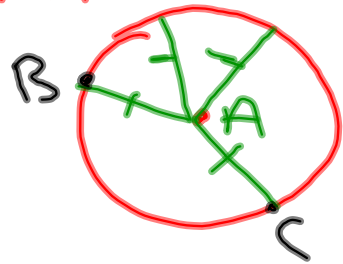
$$0 - 4 +$$

$$5 - 8 \checkmark$$

$$9 \checkmark$$

9.2 Circles + regular polygons

circle: locus of pts. that are
equidistant from + its center.

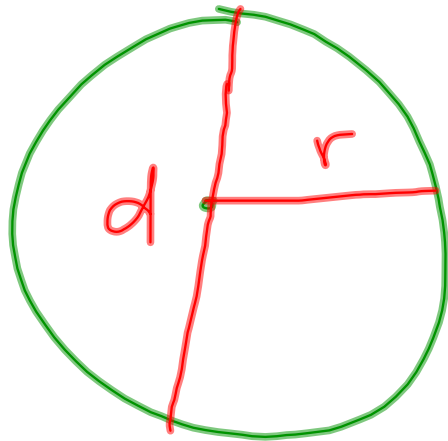


Circumference :

Distance around the circle
(Perimeter)

$$C = 2\pi r \text{ or } \pi d$$

$$C = \pi \cdot d \quad \text{or} \quad C = 2\pi r$$



$$A = \pi r^2$$

The area of $\odot K$ in terms
 π .



$$A = \pi r^2$$

$$A = \pi (6)^2$$

$$A = 9\pi \text{ m}^2$$

the radius of $\odot J$ if
the circumference is
 $(65x + 14)\pi$ ft.

$$C = 2\pi r$$
$$\frac{(65x + 14)\pi}{2\pi} = \frac{2\pi r}{2\pi}$$

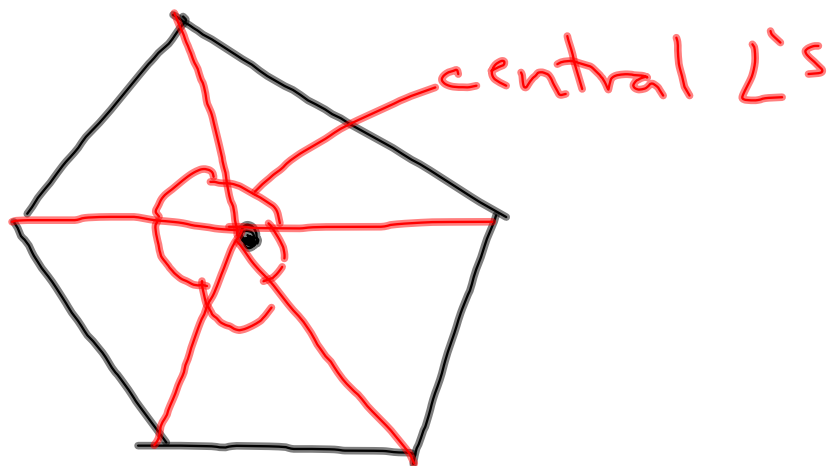
$$\frac{65x + 14}{2} = r$$

the circumference of $\odot M$
if the Area is $25\pi x^2 \text{ m}^2$.

Apothem: distance from the center of a polygon to the side.



Central angle: vertex is the center
and sides pass through consecutive vertices



Central L of a regular
 n -gon is $\frac{360}{n}$.

Area of a regular polygon

$$A = \frac{1}{2} a P$$

a = apothem

P = perimeter

Area of a regular heptagon with side length of 2 ft.



$$P = 2 \cdot 7 = 14A$$

$$\text{central } \angle = \frac{360}{7} = 51.$$

$$A = \frac{1}{2} a P$$

$$A = \frac{1}{2} (2.09)(14)$$

$$A = 14.63 \text{ ft}^2$$

~~$$\tan 25.5 = \frac{1}{a}$$~~

$$\frac{a \tan 25.5 = 1}{\tan 25.5} \quad \frac{1}{\tan 25.5}$$

$$a = 2.09$$

dodecagon with apothem
length of 4.

Hw: p. 603

2-32 even

odds extra

credit