Geo 1
CLASS NOTES
8-27-12

(10) $-\frac{85}{24} = -\frac{7}{4}r + \frac{5}{3} + \frac{3}{2}$

Mult. by 24 or $\frac{24}{1}$, follow GRE

$-85 = -42r + 40 + 36$ Simpler

$-85 = -42r + 76$
$-76 \qquad\qquad -76$

$\frac{-161}{-42} = \frac{-42r}{-42}$

$\boxed{\frac{23}{6} = r}$

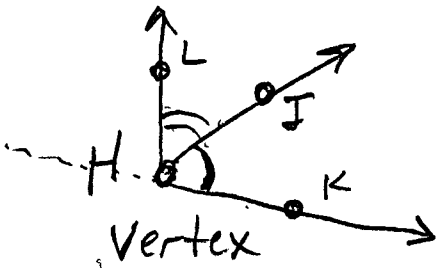
CK $-\frac{85}{24} \stackrel{?}{=} -\frac{7}{4}\left(\frac{23}{6}\right) + \frac{19}{6}$

$-\frac{85}{24} \stackrel{?}{=} -\frac{161}{24} + \frac{76}{24}$

$161 - 76 = 85$

$-\frac{85}{24} \stackrel{?}{=} -\frac{85}{24}$ ✓

Angles



$\angle JHK$

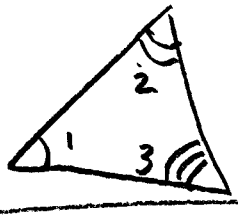
Vertex

$\angle KHJ$

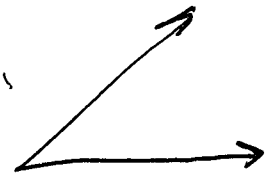
(EX) $\angle JHK$ was 35°

$m\angle JHK = 35^\circ$

180°



$m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$



ACUTE

$m\angle < 90^\circ$

right

$m\angle = 90^\circ$

obtuse

$m\angle > 90^\circ$

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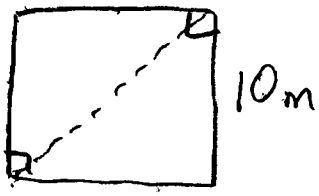
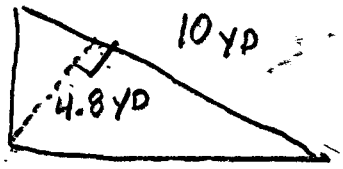
(7)



$P = 40\,m$

$A = 100\,m^2$

(19)



$$A_\Delta = \frac{1}{2} b h$$

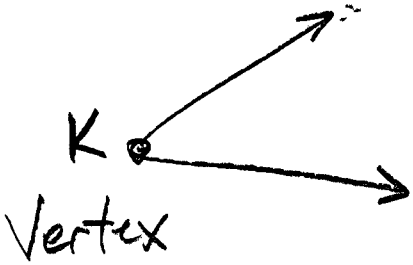
$$= \frac{1}{2}(10)(4.8)$$

$$= 5(4.8)$$

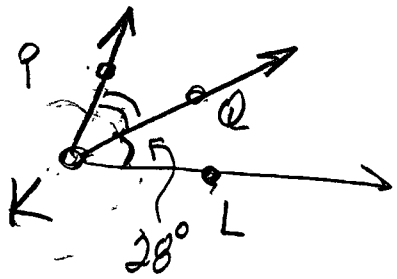
$$A_\Delta = 24.0 \text{ yd}^2$$

$$A_\odot = \pi r^2$$

$$C_\odot = 2\pi r$$



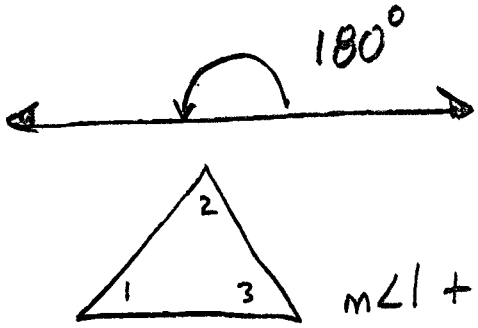
$\angle K$

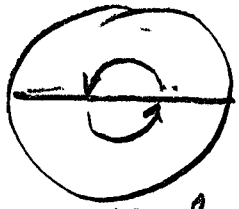


$\angle QKL$ or $\angle LKQ$

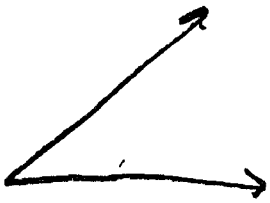
↑ Vertex ↑ Vertex

$m\angle QKL = 28°$

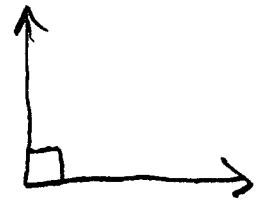




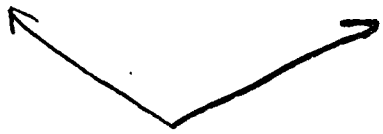
$m\angle 1 + m\angle 2 + m\angle 3 = 180°$



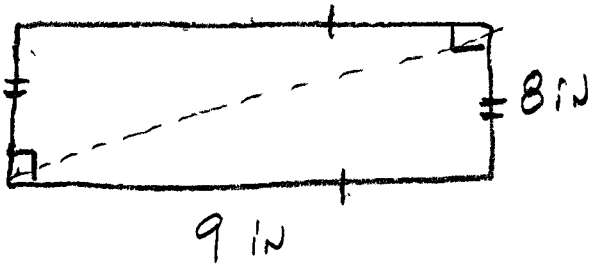
$< 90°$
acute



right
90°

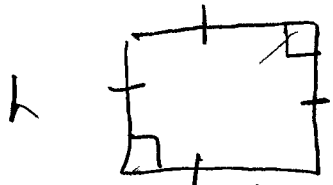


$> 90°$
obtuse



$P = 34$ in

$A = 72$ in^2



$P = 24$ ft

$A = 36$ ft^2

$(6)(6)$

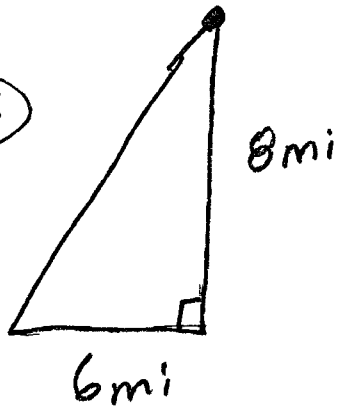
6^2

$= lh$

b

$A_\Delta = \frac{1}{2} b h$

(23)



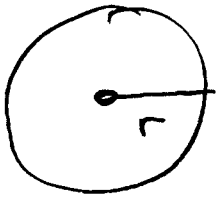
$A = \frac{1}{2} b h$

$= \frac{1}{2}(6)(8)$

$A = 24$ mi^2

$$A_{\odot} = \pi r^2$$

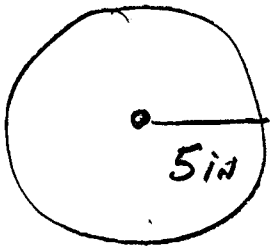
$$C_{\odot} = 2\pi r = \pi d$$



$\pi \approx 3.14159...$

↑

tenths



$$A_{\odot} = \pi r^2 = \pi (5)^2$$

$$= \pi 25$$

$$\boxed{A_{\odot} = 25\pi \text{ in}^2}$$

$$C_{\odot} = 2\pi r = 2\pi (5)$$

$$\boxed{C_{\odot} = 10\pi \text{ in}}$$

(8)

$$\frac{85}{24} = \frac{3}{2}N + \frac{15}{8} + 4\frac{2}{3}$$

$$\frac{85}{24} = \frac{3}{2}N + \frac{15}{8} + \frac{14}{3}$$

$$85 = 36N + 45 + 112$$

$$85 = 36N + 157$$

$$-157 \qquad\qquad -157$$

$$\begin{array}{r} 157 \\ -85 \\ \hline 72 \end{array}$$

$$\frac{-72}{36} = \frac{36N}{36}$$

$$-2 = N$$

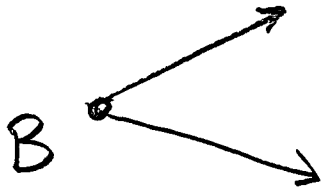
CK

$$\frac{85}{24} \stackrel{?}{=} \frac{3}{2}(-2) + \frac{15}{8} + \frac{14}{3}$$

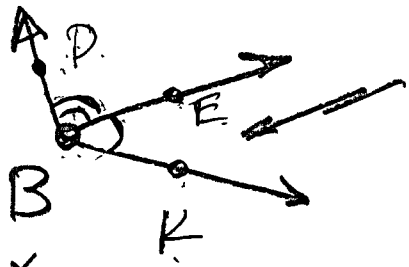
$$\frac{85}{24} \stackrel{?}{=} -\frac{72}{24} + \frac{45}{24} + \frac{112}{24}$$

✓

$$24 \cdot \frac{12}{1} \cdot \frac{3}{2}$$



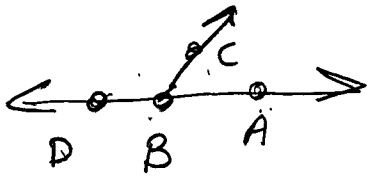
$\angle B$



Vertex

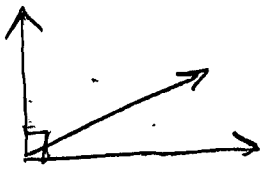
$\angle EBK$ OR $\angle KBE$

↑ Vertex



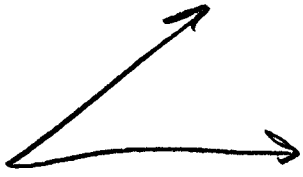
$m\angle CBD + m\angle ABC = 180°$

Supplementary



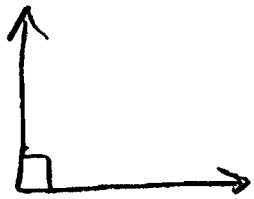
Complementary

Angles ADD to 90°



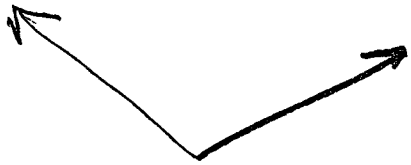
$< 90°$

Acute



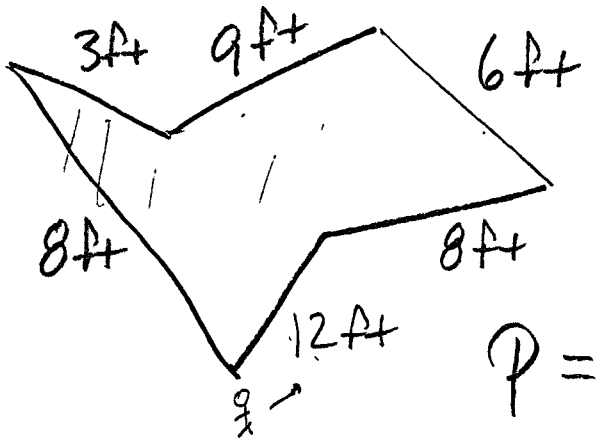
$90°$

Right



$> 90°$

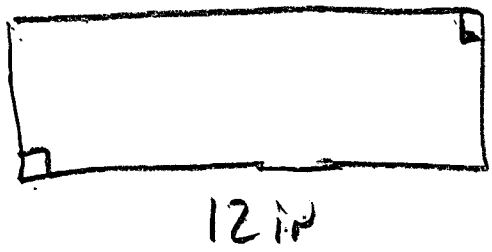
obtuse



hexagon

P = perimeter = 46ft

around measure



$P = 2(12) + 2(7)$

$P = 38\ in$

$$A_{\odot} = \pi r^2$$

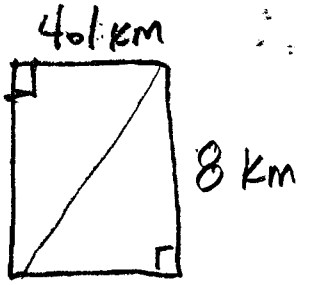
(Ex) $84\ in^2 = \pi r^2$

$$\frac{84}{\pi} = r^2$$

$$\pm\sqrt{\frac{84}{\pi}} = r \qquad r \approx$$

Throw out neg

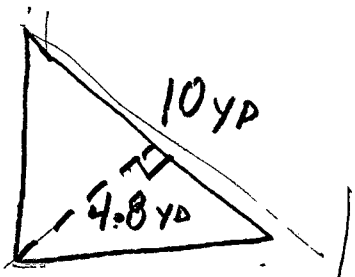
(9)



$A = 32.8 \text{ km}^2$

$P = 24.2 \text{ km}$

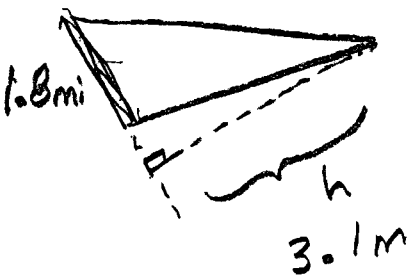
(19)



$A_\Delta = \frac{1}{2} b h$

$A_\Delta = 48.0 \text{ yd}^2$

(21)



$A_\Delta = \frac{1}{2}(1.8)(3.1)$

$= (.9)(3.1)$

$A_\Delta = 2.79 \text{ mi}^2$

(29) dia $\odot = 22$ ft $\Rightarrow r = 11$

$C = 2\pi r = 2\pi(11)$

$= 22\pi$ ft EXACT

$A_\odot = \pi r^2 = \pi(11)^2 = 121\pi \text{ ft}^2$

EXACT