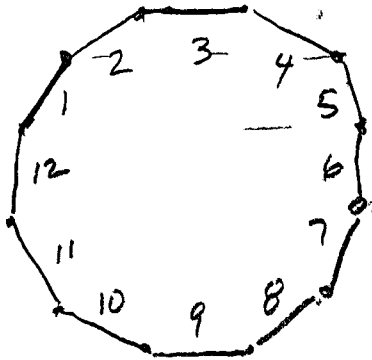


Geometry

Weds. 2-27-13

CLASS Notes

(33)



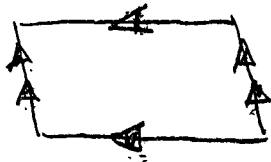
Find the interior
Angle Sum.

$$\begin{aligned} S &= (N-2) 180 \\ &= (12-2) 180 \\ &= 10(180) \\ &= \boxed{1800 \text{ degrees}} \end{aligned}$$

(34) How big is ea Angle, assuming a regular dodecagon.

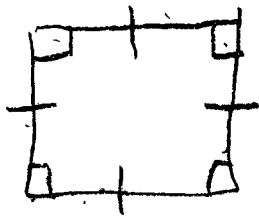
$$\frac{1800}{12} = \frac{900}{6} = \frac{450}{3} = \boxed{150 \text{ deg.}}$$

(35)



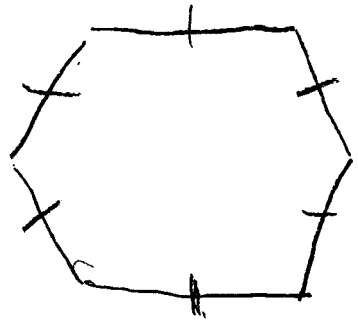
QUADRILATERAL
PARALLELOGRAM

(36)

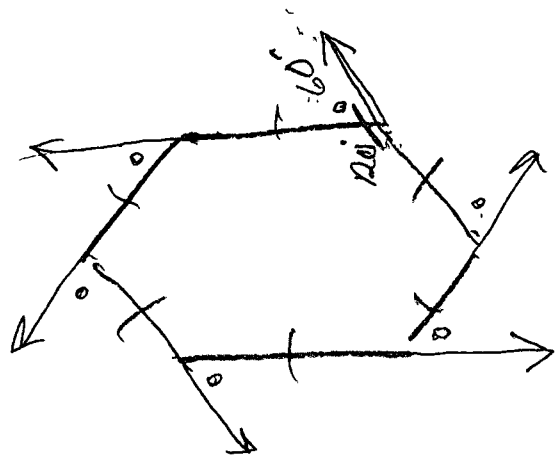


QUADRILATERAL
PARALLELOGRAM
RHOMBUS
RECTANGLE
SQUARE

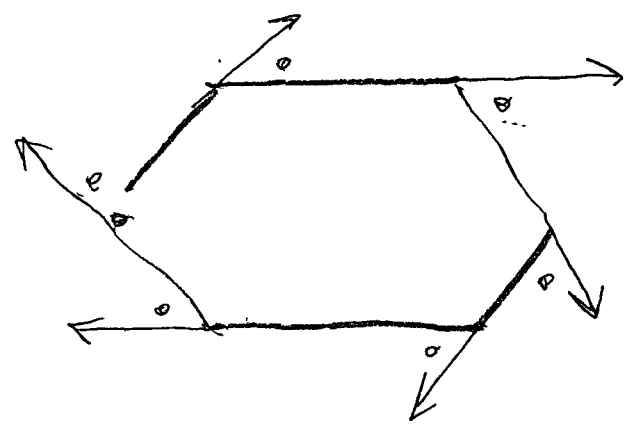
(32) Measure of one exterior angle.



$$\frac{360}{6} = \boxed{60^\circ}$$

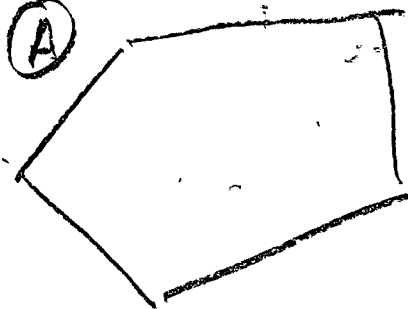


6 EXTERIOR ANGLES



EX

A



CONVEX

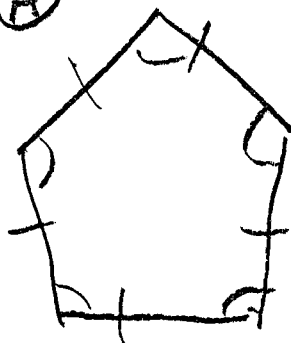
B



CONCAVE

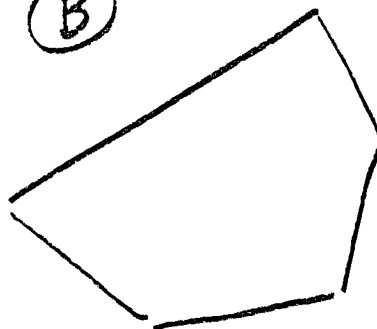
EX

A



REGULAR

B

NOT REGULAR
(IRREGULAR)

①

$$(x-13)^2 + (y-7)^2 = 16$$

$$\boxed{C(13, 7), r = 4}$$

h, k

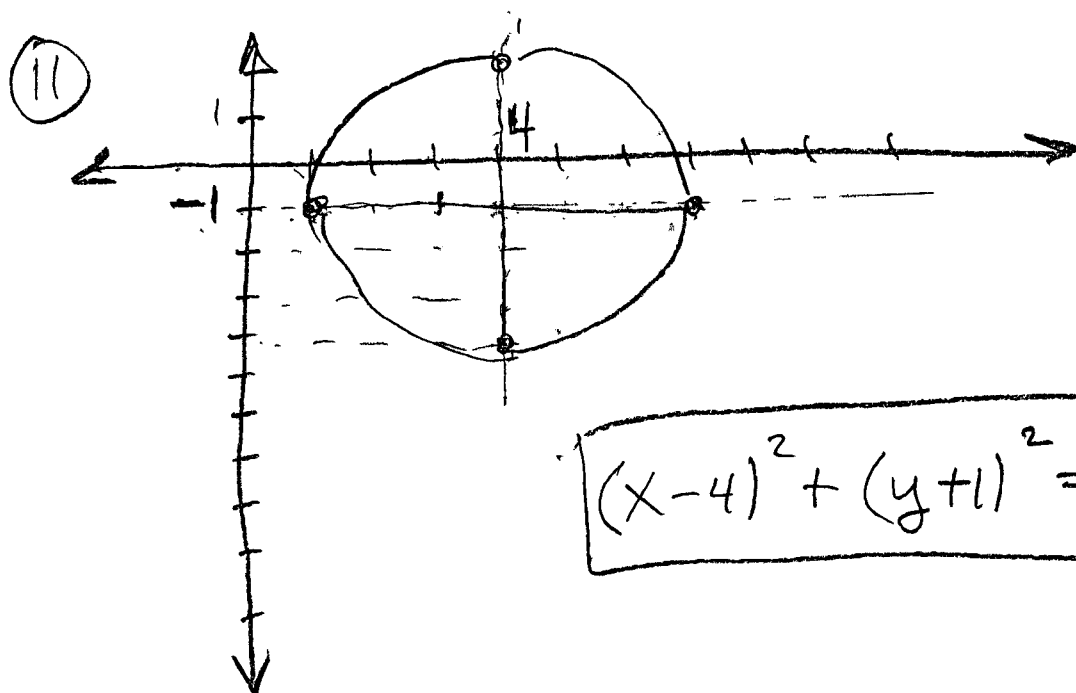
$$\textcircled{\text{EX}} \quad 2\sqrt{3} \Rightarrow (2\sqrt{3})^2$$

$$(4 \cdot 3) = 12$$

$$\textcircled{\text{EX}} \quad (6\sqrt{5})^2 = 36 \cdot 5 = \boxed{180}$$

$$\textcircled{6} \quad C(-7, 2), \sqrt{133} = r$$

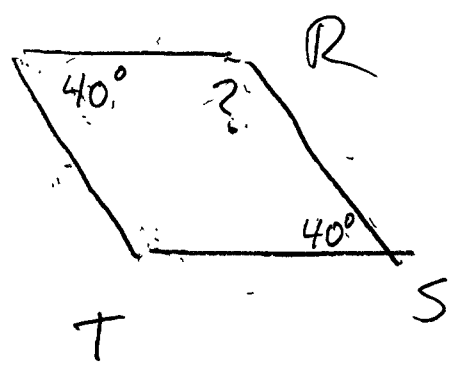
$$\boxed{(x+7)^2 + (y-2)^2 = 133}$$



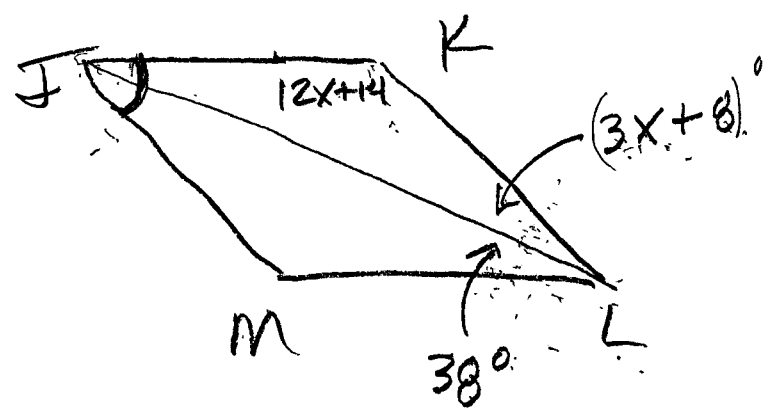
$$\boxed{(x-4)^2 + (y+1)^2 = 9}$$

43 Parallelogram

$m\angle R = 140^\circ$



49



$m\angle KJM = ?$

$(3x+8) + 38 + (12x+14) = 180$

$15x + 60 = 180$
 $-60 \quad -60$

$\frac{15x}{15} = \frac{120}{15} = \frac{24}{3}$

$x = 8$

$m\angle L = 3(8) + 8 + 38 = 70$

$\therefore m\angle KJM = 70^\circ$

Ex. of circle
⑨ $C(+5, 4)$ Point on Circle: $(-7, 9)$
 h, k

$$r^2 = (-7+5)^2 + (9-4)^2$$

$$r^2 = (-2)^2 + (5)^2$$

$$r^2 = 4 + 25 = 29$$

$$\therefore (x+5)^2 + (y-4)^2 = 29$$
