

HOMEWORK... 777
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Page 99: 1, 3, 4, 5, 10, 11, 16

HISTORY on Buckyball Do A, B and C

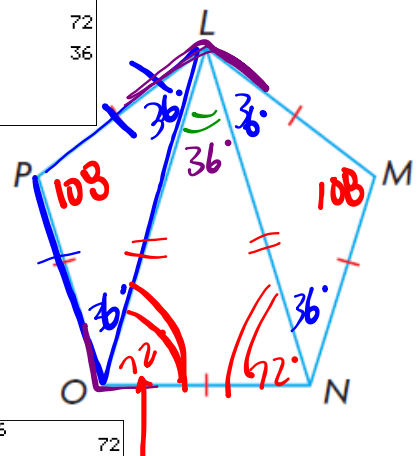
$$S = 180^\circ(n-2)$$

10. *LMNOP* is a regular pentagon.

- a) Determine the measure of $\angle OLN$.
- b) What kind of triangle is $\triangle LON$?
Explain how you know.

Isosceles Δ

$180 - 108$	72
Ans $\div 2$	36

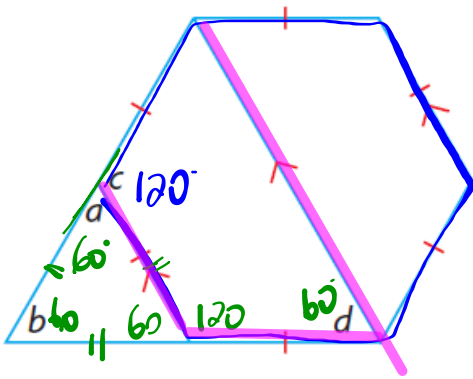


$180(5-2)$	540
Ans $\div 5$	108

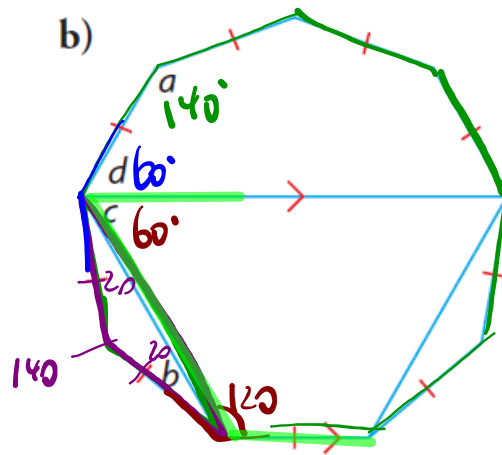
$108 - 36$	72
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16. In each figure, the congruent sides form a regular polygon. Determine the values of a , b , c , and d .

a)



b)



$a =$

$180(9-2)$	1260
Ans/9	140

UNIT TEST... Chp. 1 - Inductive/Deductive
Chp. 2 - Angle Properties

REVIEW / PRACTICE TIME...

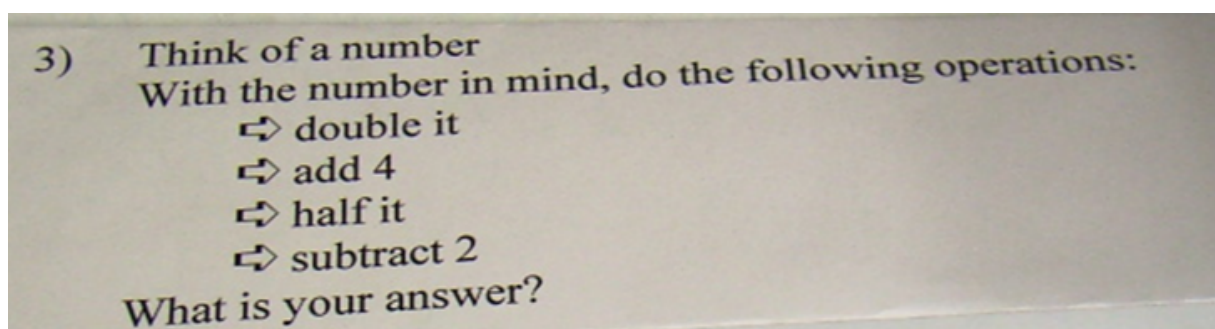
CHAPTER 1...

- p. 34: Mid Chp Review (FAQ)
- p. 35: Mid Chp Practice Ques.
- p. 59: Chp Review (FAQ)
- p. 61: Chp Practice (omit 1.7)
- p. 58: Practice Test

CHAPTER 2...

- p. 84: Mid Chp Review (FAQ)
- p. 85: Mid Chp Practice Ques.
- p. 105: Chp Review (FAQ)
- p. 106: Chp Practice
- p. 104: Practice Test

WARM-UP...



Inductively:

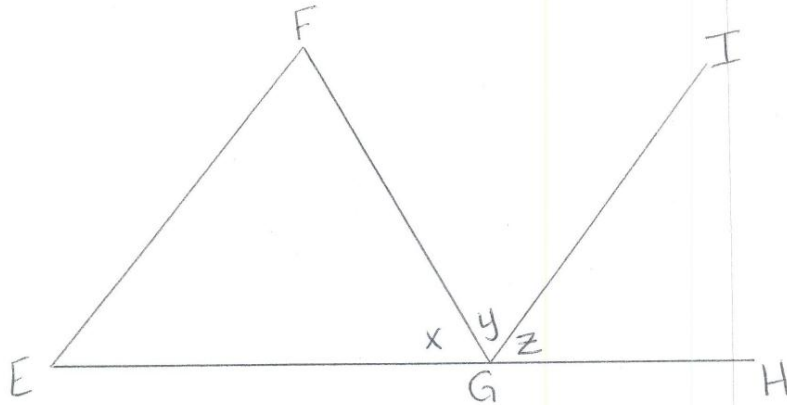
11
22
26
13
⑪

Deductively:

$$\begin{array}{r} n \\ 2n+4 \\ \hline 2 \\ n+2-2 \\ \textcircled{n} \end{array}$$

In $\triangle EFG$, GI bisects $\angle FGH$
 If $\angle E = \angle y$, then prove that $EF \parallel GI$

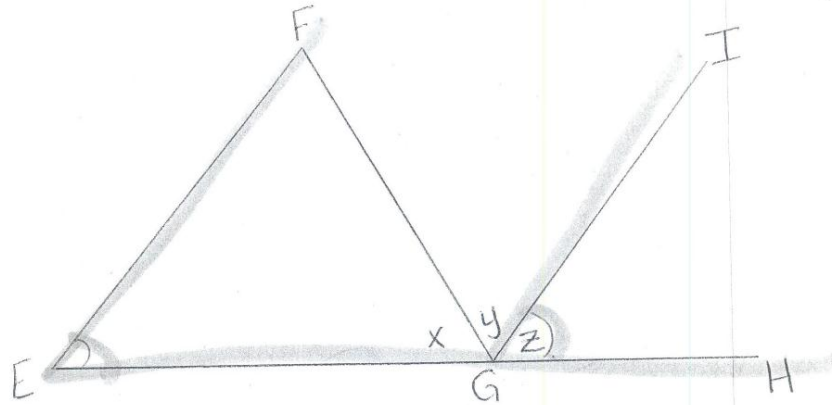
(2)



Statements	Justifications

In $\triangle EFG$, GI bisects $\angle FGH$
 If $\angle E = \angle Z$, then prove that $EF \parallel GI$

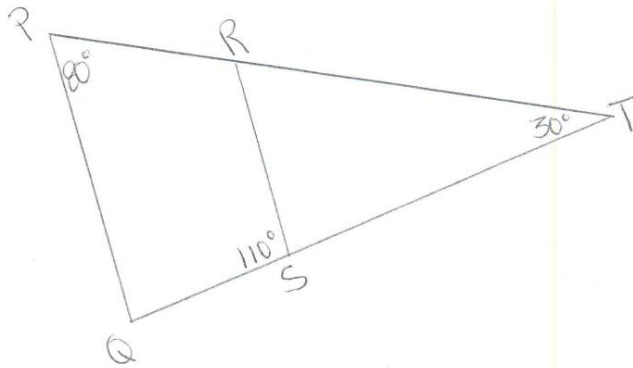
(2)



Statements	Justifications
$\angle y = \angle z$	given GI bisects $\angle FGH$
$\angle y = \angle E$	given
$\angle E = \angle z$	transitive
$EF \parallel GI$	corresponding angles are equal.

(4)

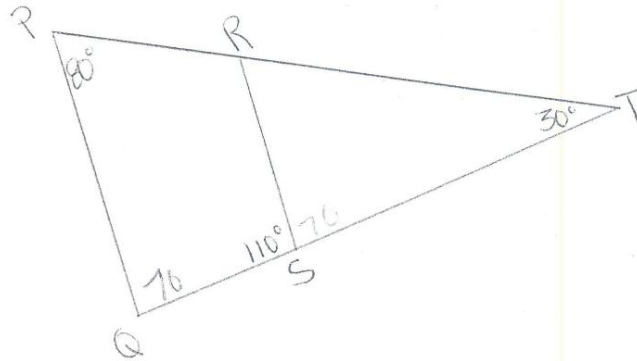
Prove $PQ \parallel RS$



Statements	Justifications

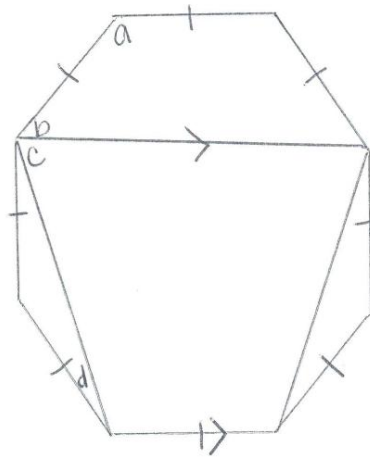
(4)

Prove $PQ \parallel RS$



Statements	Justifications
$\angle Q + \angle P + \angle T = 180^\circ$ $\angle Q + 80^\circ + 30^\circ = 180^\circ$ $\angle Q = 70^\circ$	Sum of interior angles of a Δ Substitution Subtraction.
$\angle QSR + \angle RST = 180^\circ$ $\angle RST + 110^\circ = 180^\circ$ $\angle RST = 70^\circ$	Supplementary angles Substitution Subtraction
$PQ \parallel RS$	Corresponding angles ($\angle Q$ and $\angle RST$ are equal)

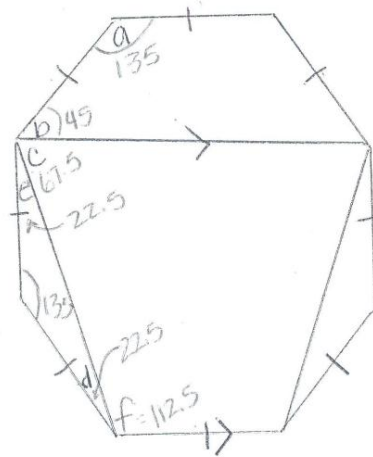
Determine the values of a , b , c , and d . ⑤



Show all your work!

$a =$ $b =$ $c =$ $d =$

Determine the values of $a, b, c,$ and $d.$ (5)



Show all your work!

$$\begin{aligned} \rightarrow S(n) &= 180(n-2) \\ S(8) &= 180(8-2) \\ &= 180(6) \\ &= 1080 \end{aligned}$$

\rightarrow measure of each angle of the octagon $\therefore \angle a :$

$$\angle a = \frac{1080}{8} = 135^\circ$$

$\rightarrow d = e$ (isosceles triangle)

$$\begin{aligned} 135 + 2e &= 180 \\ e &= 22.5 \\ d &= 22.5 \end{aligned}$$

$\rightarrow 180 - f = c$ (co-interior)

$$\begin{aligned} 180 - 112.5 &= c \\ c &= 67.5 \end{aligned}$$

$\rightarrow 135 - e - c = b$

$$\begin{aligned} 135 - 22.5 - 67.5 &= b \\ b &= 45^\circ \end{aligned}$$

$a = 135^\circ$	$b = 45^\circ$	$c = 67.5^\circ$	$d = 22.5^\circ$
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