

Geometry Honors

Mid-Term Exam Practice

Ms. Chan's review

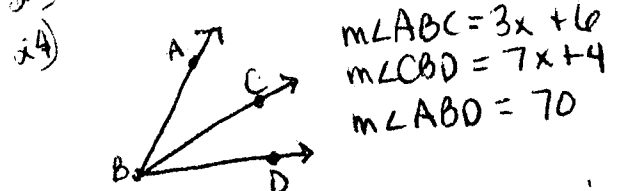


- 1) All Geometry Honors students are smart. (Rewrite in if-then form)
- 2) Identify the hypothesis & conclusion: If I get an "A", I will be happy
- 3) Write the converse of the statement in #2,
- 4) The n^{th} term that represents the sum of
 - (a) n positive integers is?
 - (b) n even integers is?
 - (c) n odd integers is?
- 5) Find the sum of $53 + 55 + 57 + \dots + 255$.
- 6) Find the sum of $2 + 4 + 6 + \dots + 252$.
- 7) Find the sum of the numbers from 80 to 700.
- 8) Find the next term: $24, 6, \frac{3}{2}, \frac{3}{8}, \dots$
- 9) Find the next term of: $12, 13, 20, 56, 145, 312, \dots$
- 10) Find the 50^{th} term: $4, \frac{15}{2}, 12, \frac{35}{2}, 24$ (Hint: Create your own term/value chart)

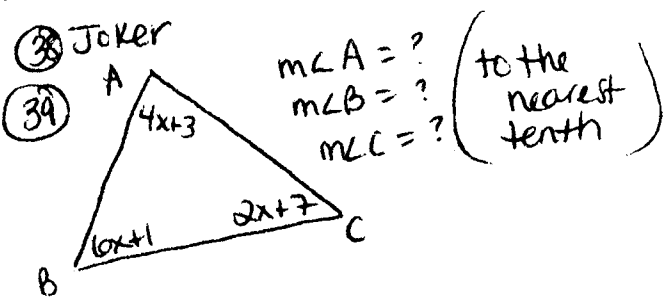
Term	1	2	3	4	5
Value	4	$\frac{15}{2}$	12	$\frac{35}{2}$	24

- 1) Find the n^{th} term of: $0, -1, -1, 0, 2, 5$
- 2) Find the 65^{th} term of: $9, 13, 17, 21, 25$
- 3) How many 2-person conversations are possible at a party of 280 people?
- 4) How many diagonals can be drawn from one vertex of a dodecagon?
- 5) Finding the n^{th} term problem
- 6) Definition (18)-(20) notation for lines, line segments, rays
- 7) Definition (21) $\angle 1$ & $\angle 2$ are a linear pair. (22) $m\angle 1 = 54^\circ$. $m\angle 2 = ?$

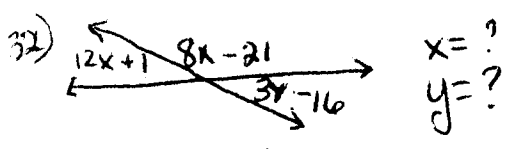
23) B is btwn. A and C. Find x if $AB = 4x + 3$, $BC = 12x + 5$ and $AC = 24$



Find $m\angle ABC$ and $m\angle CBD$.

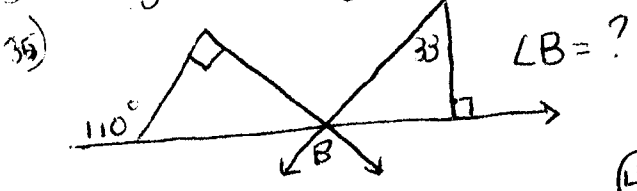


25) - 31) Know constructions & definitions



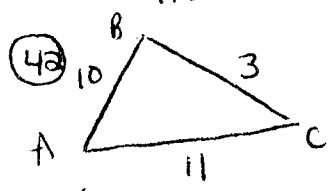
33) slopes of \parallel , \perp

34) triangle - dodecagon shapes



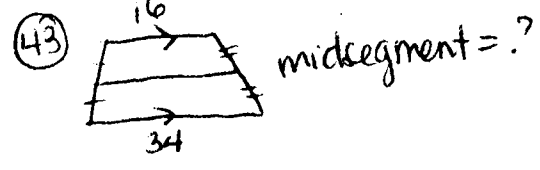
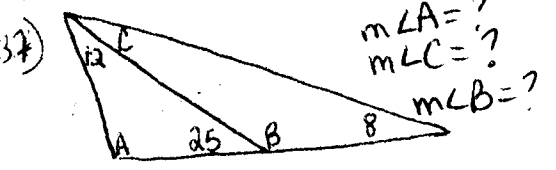
40) Joker

41) Two sides of a Δ are 16 and 25. The third is ?



write measures of the \angle s in order from greatest to least.

36) Joker

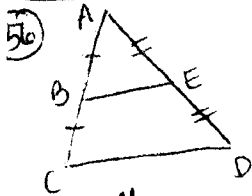


44) How many sides does an equiangular polygon have if each angle measures 174° ?

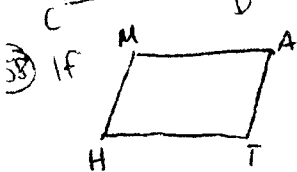
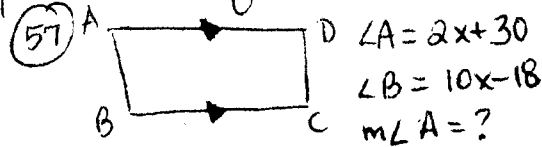
45) The measure of each exterior \angle of a regular octagon is ?

46 thru 48 corresponding angles, AIA, AEA, SSIA

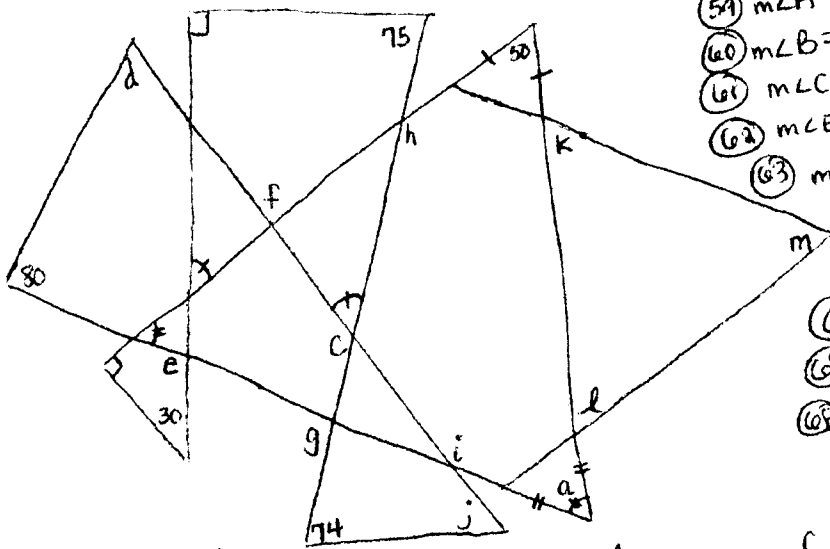
49 thru 55 know characteristics of quadrilateral flowchart



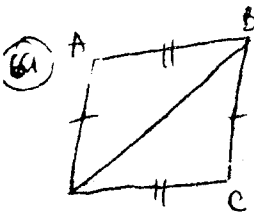
56 $BE = \frac{7}{2}x + 5$
 $CD = 20x + 3$ $x = ?$



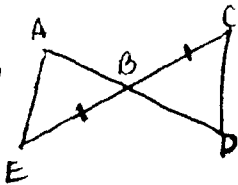
58 is a parallelogram and $MA = 3x - 5$ and $HT = 8x + 5$ and $HM = 2x - 1$ and $TA = 6y + 18$. Find x and y .



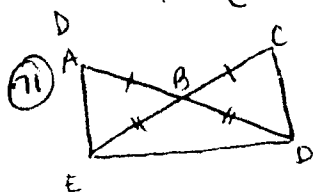
- 59 $m\angle A = ?$
- 60 $m\angle B = ?$
- 61 $m\angle C + \angle D = ?$
- 62 $m\angle E + m\angle F = ?$
- 63 $m\angle G = ?$
- 64 $m\angle H = ?$
- 65 $m\angle I = ?$
- 66 $m\angle J = ?$
- 67 $m\angle K = ?$
- 68 $m\angle L + \angle M = ?$



69 $\triangle ABE \cong \triangle CDE$
 by what?



70 what must be true in order for $\triangle ABE \cong \triangle CDE$ by ASA?



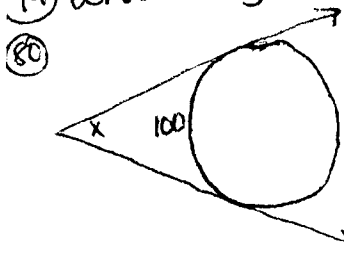
71 $\triangle ABE \cong ?$

- 72 Joker
- 73 Joker
- 74 Joker

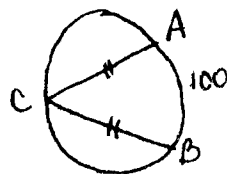
- 75 Definition ()
- 76 Definition ()
- 77 Defn. ()

- 78 Know what a:
 - (A) major arc is
 - (B) minor arc is
 - (C) diameter is

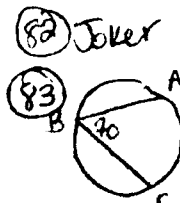
79 what do you know about tangent segments?



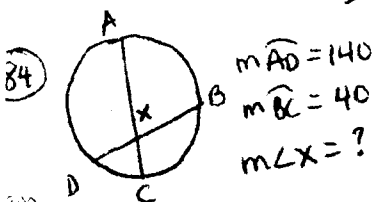
80 $x = ?$



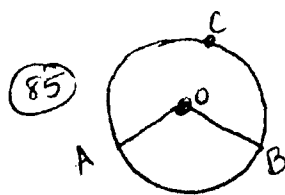
81 radius = 20 cm
 arc length $\widehat{ABC} = ?$



82 $m\widehat{AC} = ?$



84 $m\widehat{AD} = 140$
 $m\widehat{BC} = 40$
 $m\angle x = ?$



85 $m\angle OBA = 50$
 $m\widehat{ACB} = ?$

86 - 100 are True/False questions based on your knowledge from (definitions, theorems) (quadrilateral flow chart) characteristics of Δ s chart