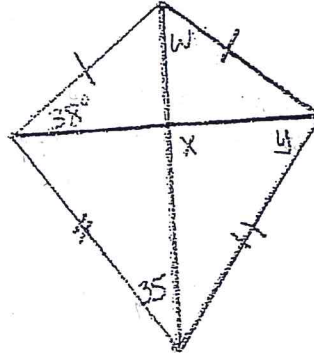
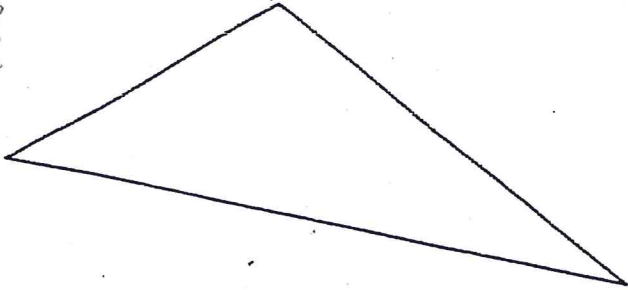


Geometry Worksheet
 Chapter 4 Sections ~~8 and 9~~
 1, 2, 3, 4

Please write on your own paper!!!

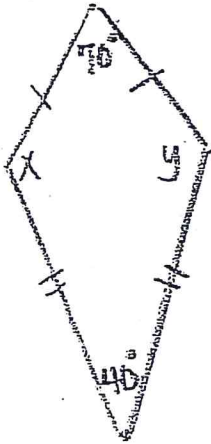
2) Draw a midsegment on the triangle. Show and tell why it is a midsegment.

skip this one



$w =$
 $x =$
 $y =$

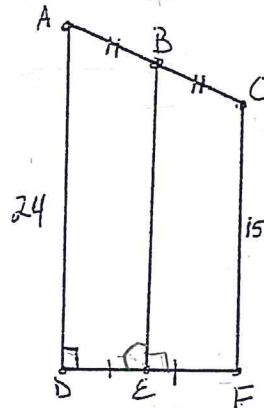
3)



$x =$ _____

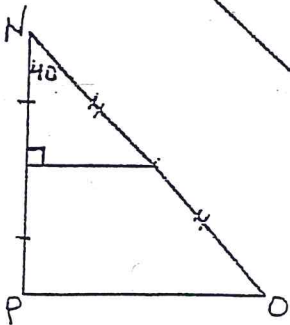
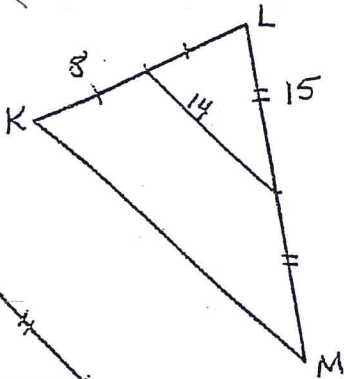
$y =$ _____

4) Find the unknowns.



$m\angle BEF =$ _____
 $m\angle EFC =$ _____
 $m\angle FCA =$ _____
 $BE =$ _____

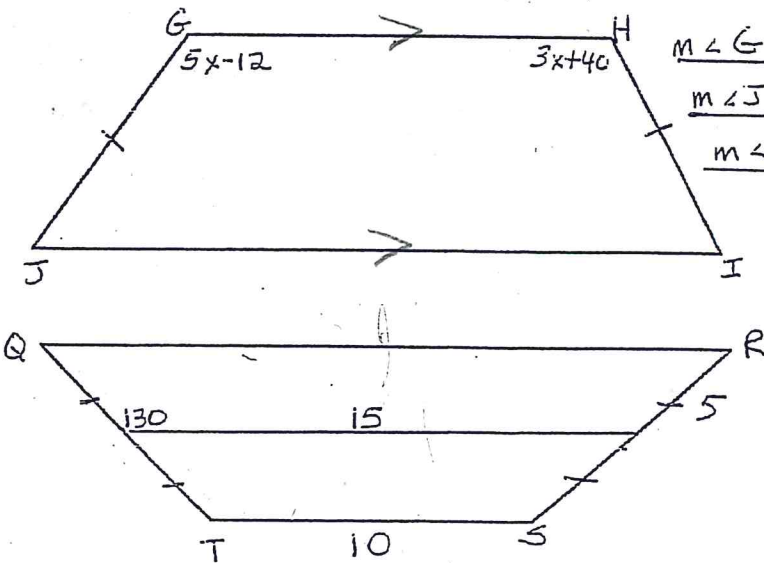
5) Find the unknown measures.



perimeter of $\triangle KLM =$ _____

$m\angle O =$ _____

$m\angle P =$ _____



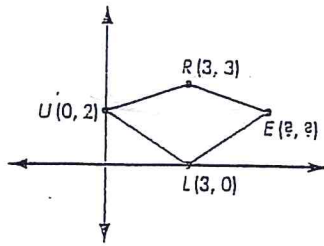
$m\angle G =$ _____
 $m\angle J =$ _____
 $m\angle I =$ _____

Perimeter of trapezoid QRST = _____

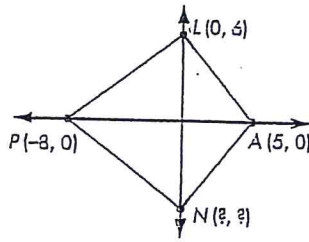
$m\angle Q =$ _____ $m\angle T =$ _____

$m\angle R =$ _____ $m\angle S =$ _____

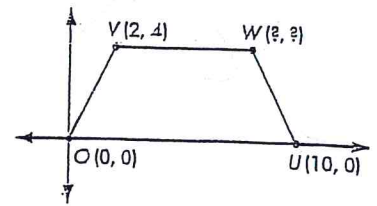
10. RULE is a kite. What are the coordinates of point E? _____



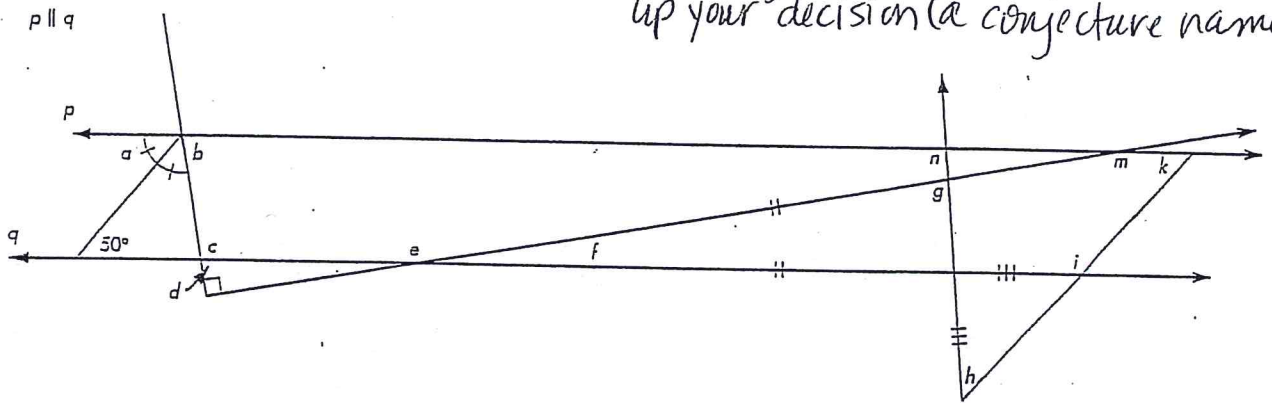
11. PLAN is a kite. What are the coordinates of point N? _____



12. UOVW is an isosceles trapezoid. What are the coordinates of point W? _____



13. Calculate the measure of each lettered angle. On 5 angles, give a reason to back up your decision (a conjecture name)

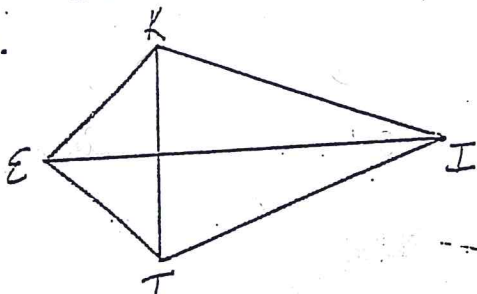


a = _____
 b = _____
 c = _____
 d = _____

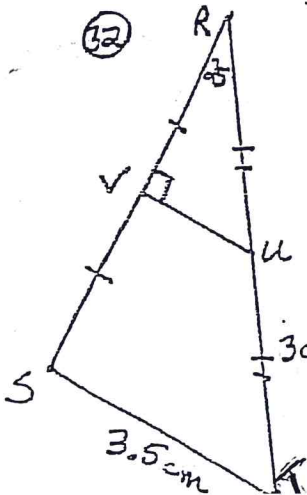
e = _____
 f = _____
 g = _____
 h = _____

i = _____
 k = _____
 m = _____
 n = _____

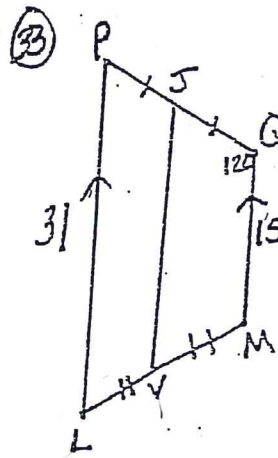
31.



KITE is a kite. The perimeter of KITE is 38 m.
 KI = 12 m and KE = ?
 $m\angle TEK = 100^\circ$ and $m\angle TIK = 50^\circ$
 $m\angle EKI = ?$, $m\angle KEI = ?$, and $m\angle TKI = ?$



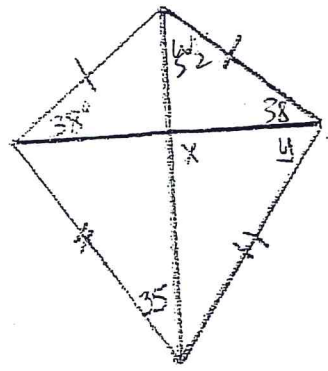
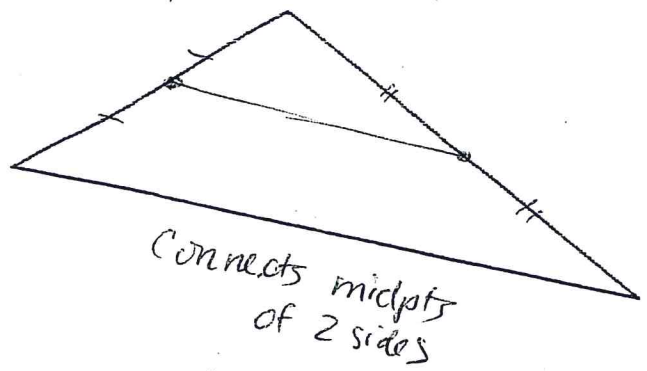
a) $m\angle TSV =$ _____
 b) $m\angle T =$ _____
 c) RT = _____
 d) $\overline{VU} =$ _____
 If perimeter = 15 cm of $\triangle RST$ then
 e) RV = _____



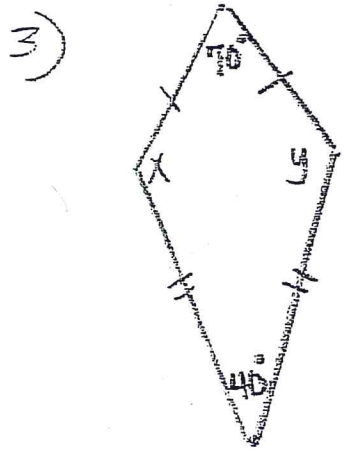
a) $m\angle QJV =$ _____
 b) $m\angle L =$ _____
 c) JV = _____

Geometry Worksheet
 Chapter 5 Sections ~~1, 2, 3, 4~~
 1, 2, 3, 4

1) Draw a midsegment on the triangle. 2)
 Show and tell why it is a midsegment.

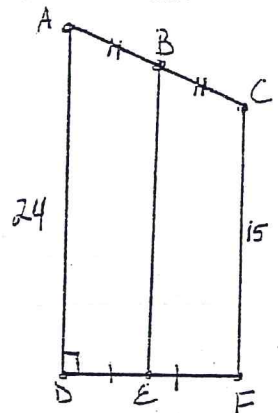


$w = 52^\circ$
 $x = 90^\circ$
 $y = 55^\circ$



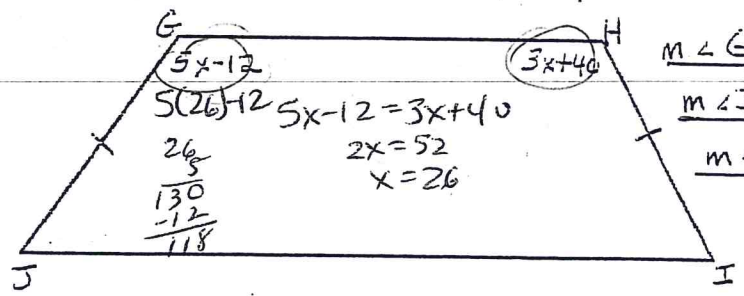
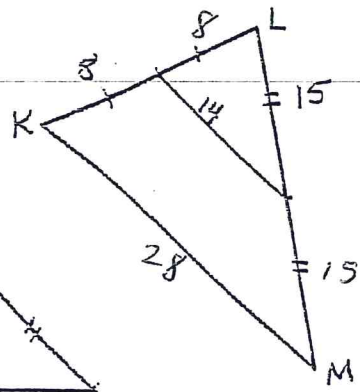
$x = 125^\circ$
 $y = 125^\circ$

4) Find the unknowns.

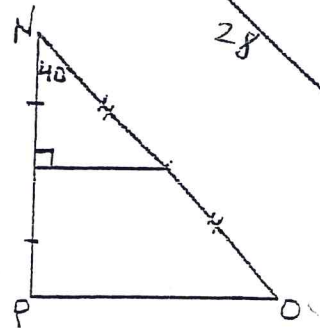


$m\angle BEF = 90^\circ$
 $m\angle EFC = 90^\circ$
 $m\angle FCA = \angle CBI$
 $BE = \frac{39}{2} 19.5$

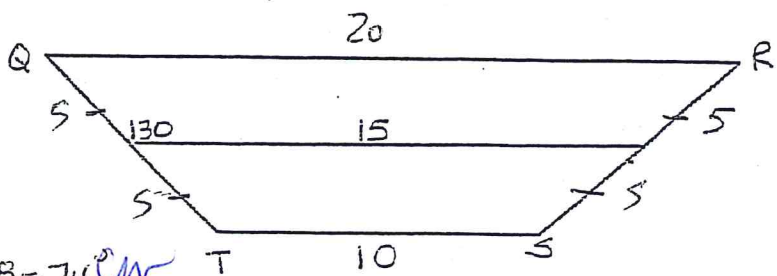
5) Find the unknown measures.



$m\angle G = 118^\circ$
 $m\angle J = 62^\circ$
 $m\angle I = 42^\circ$

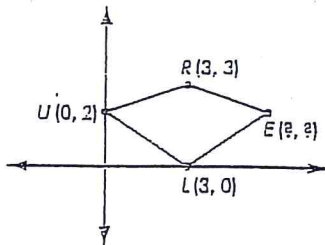


perimeter of $\triangle KLM = 16 + 30 + 28 = 74 \text{ cm}$
 $m\angle O = 50^\circ$
 $m\angle P = 90^\circ$

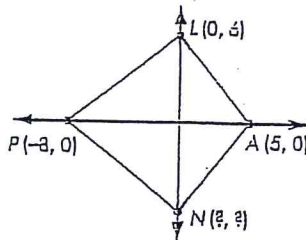


Perimeter of trapezoid QRST = 50 cm
 $m\angle Q = 50^\circ$
 $m\angle R = 50^\circ$
 $m\angle T = 130^\circ$
 $m\angle S = 130^\circ$

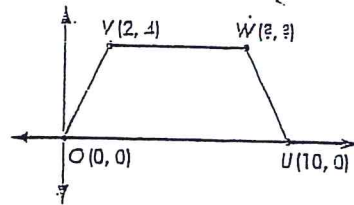
10. RULE is a kite. What are the coordinates of point E? (6, 2)



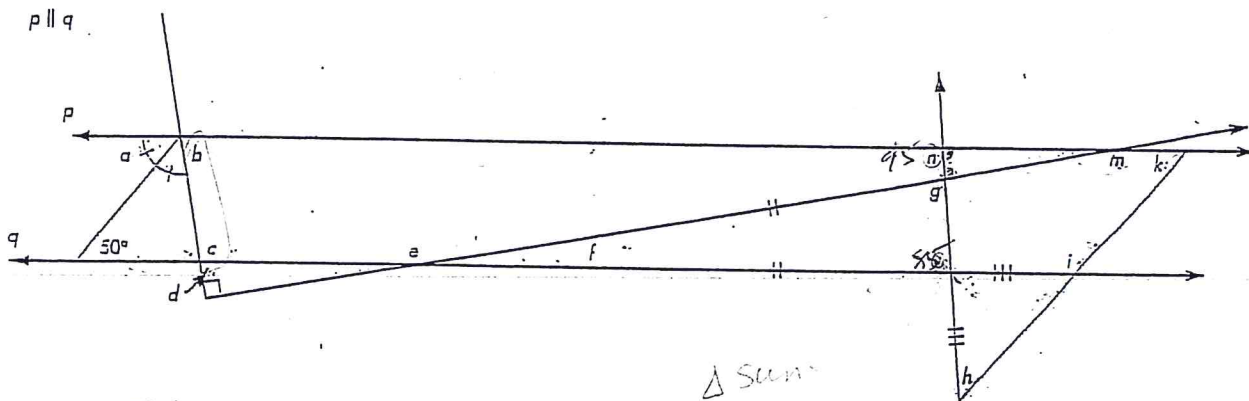
11. PLAN is a kite. What are the coordinates of point N? (0, -6)



12. UOVW is an isosceles trapezoid. What are the coordinates of point W? (8, 4)



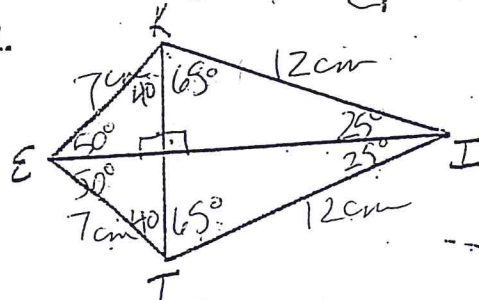
13. Calculate the measure of each lettered angle.



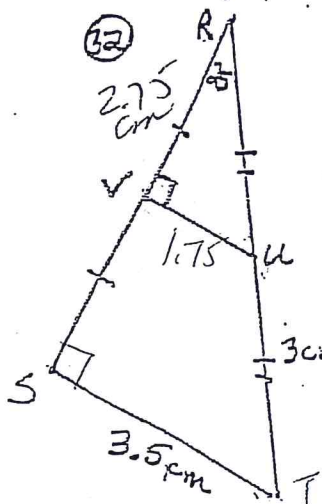
$a = 50^\circ$ *ATA*
 $b = 80^\circ$ *LP*
 $c = 100^\circ$ *CIA*
 $d = 80^\circ$ *LP*

$e = 170^\circ$ *LP*
 $f = 10^\circ$ *LP & VA*
 $g = 85^\circ$ *ISOS Δ (Δ Sum)*
 $h = 47.5^\circ$ *VA Δ Sum*
 $i = 132.5^\circ$ *LP (ISOS Δ)*
 $k = 47.5^\circ$ *CIA*
 $m = 170^\circ$ *Δ Sum, LP*
 $n = 95^\circ$ *CIA*

31.



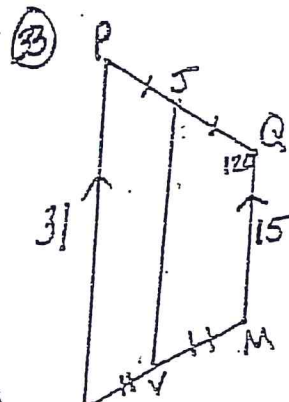
KITE is a kite. The perimeter of KITE is 38 cm.
 $KI = 12$ cm and $KE = ?$ 7 cm
 $m\angle TEK = 100$ and $m\angle TIK = 50$
 $m\angle EKI = ?$, $m\angle KEI = ?$ and $m\angle TKI = ?$
 $\frac{360 - 150}{2} = 105^\circ$ 50° 65°



- a) $m\angle TSV = 90^\circ$
- b) $m\angle T = 65^\circ$
- c) $RT = 6$ cm
- d) $\overline{VU} = 1.75$ cm

If perimeter = 15 cm of $\triangle RST$ then

e) $RV = 4.5$ cm



- a) $m\angle QJV = 60^\circ$
- b) $m\angle L = \underline{CBD}$
- c) $JV = 23$ cm