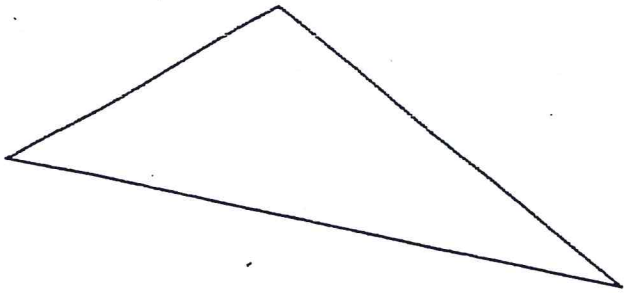
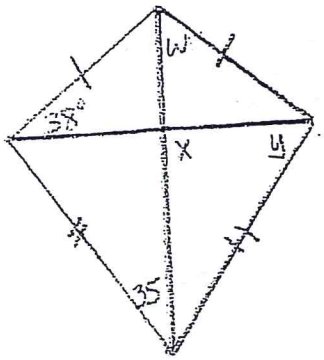
Geometry Worksheet
Chapter ~~4~~ 5 Sections ~~8 and 9~~
1, 2, 3 & 4

Please write on your own paper!!!

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

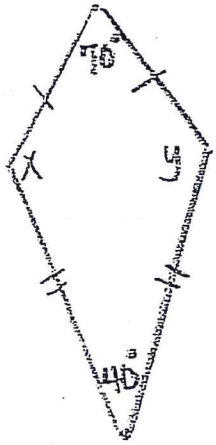


2)



W =
X =
Y =

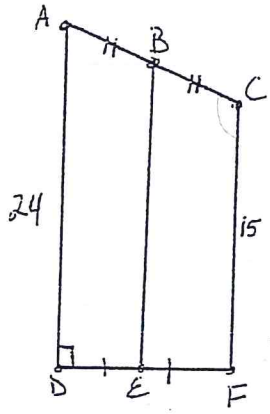
3)



X = _____

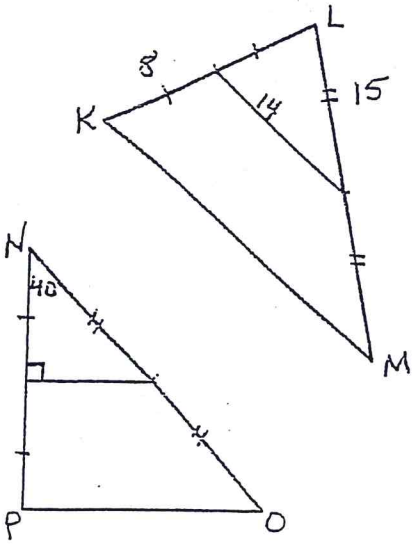
Y = _____

4) Find the unknowns.



m∠BEF = _____
m∠EFC = _____
m∠FCA = _____
BE = _____

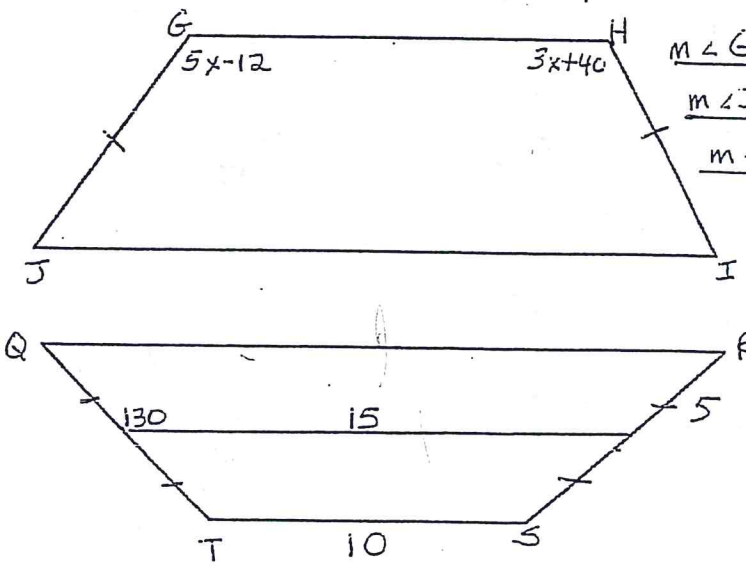
5) Find the unknown measures.



perimeter of △KLM = _____

m∠O = _____

m∠P = _____



m∠G = _____
m∠J = _____
m∠I = _____

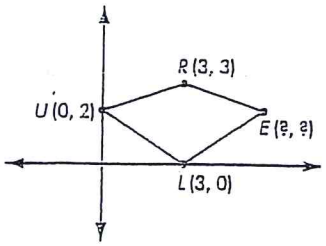
Perimeter of trapezoid QRST = _____

m∠Q = _____ m∠T = _____

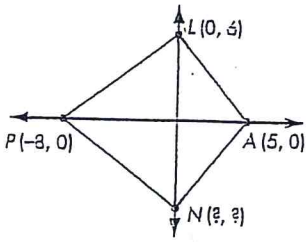
m∠R = _____ m∠S = _____

Name _____ Period _____ Date _____

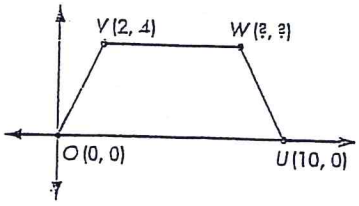
10. RULE is a kite. What are the coordinates of point E? _____



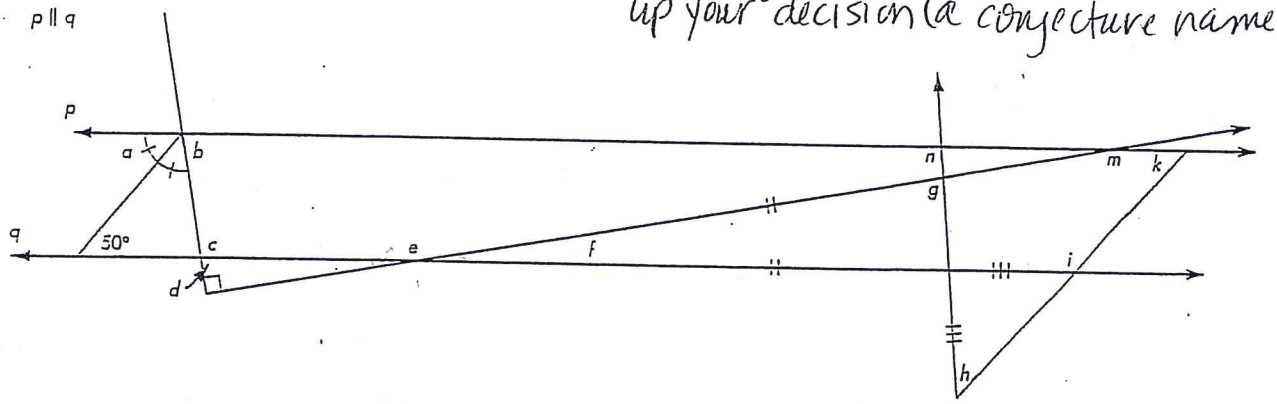
11. *PLAN* is a kite. What are the coordinates of point N? _____



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

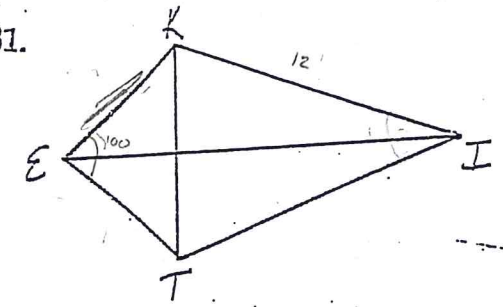


13. Calculate the measure of each lettered angle. On 5 angles, give a reason to back up your decision (a conjecture name)



$a =$ _____	$e =$ _____	$i =$ _____
$b =$ _____	$f =$ _____	$k =$ _____
$c =$ _____	$g =$ _____	$m =$ _____
$d =$	$h =$ _____	$n =$ _____

31.



KITE is a kite. The perimeter of KITE is 38 m.
KI = 12 m and KE = ?
m<TEK = 100° and m<TIK = 50°
m<EKI = ?, m<KEI = ? and m<TKI = ?

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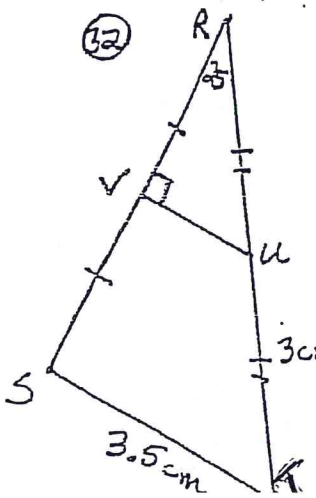
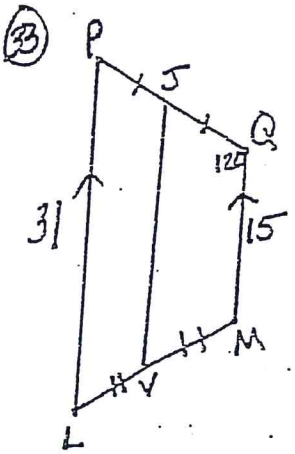


a) m∠TSV = _____
b) m∠T = _____
c) RT = _____
d) $\overline{VU}$ = _____

If perimeter = 15cm of △RST then
e) RV =

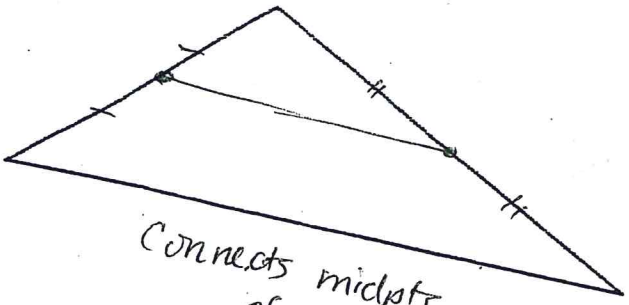
33



a) m∠QJV = _____
b) m∠L = _____
c) JV = _____

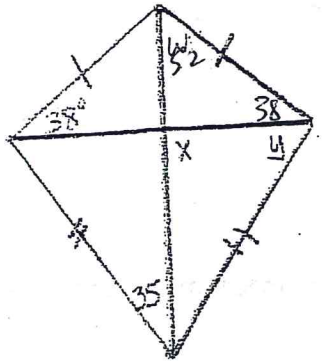
Geometry Worksheet
Chapter 5 Sections ~~8 and 9~~
1, 2, 3 & 4

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



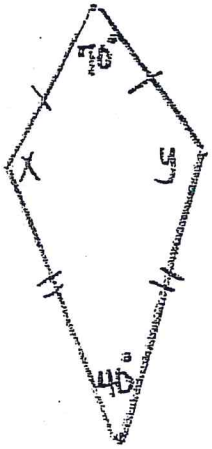
Connects midpts of 2 sides

2)



$w = 52°$
$x = 90°$
$y = 55°$

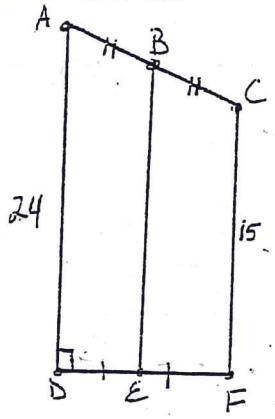
3)



$x = 125°$

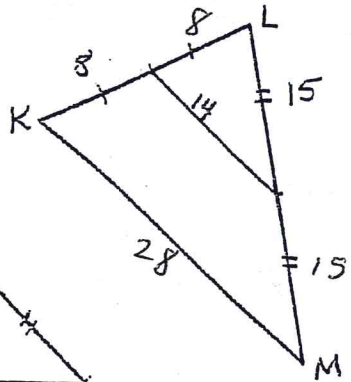
$y = 125°$

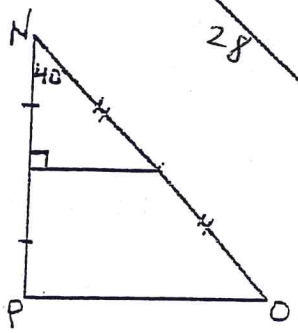
4) Find the unknowns.

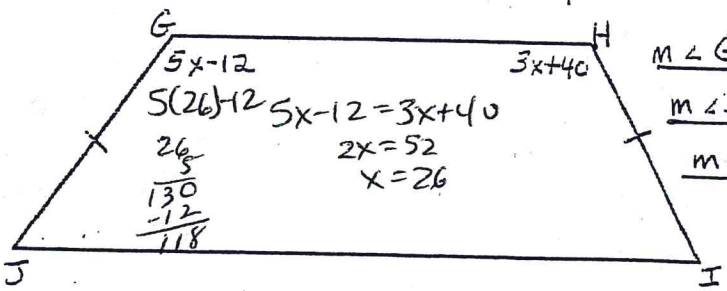


$m\angle BEF = 90°$
$m\angle EFC = 90°$
$m\angle FCA = \angle BD$
$BE = \frac{39}{2} = 19.5$

5) Find the unknown measures.



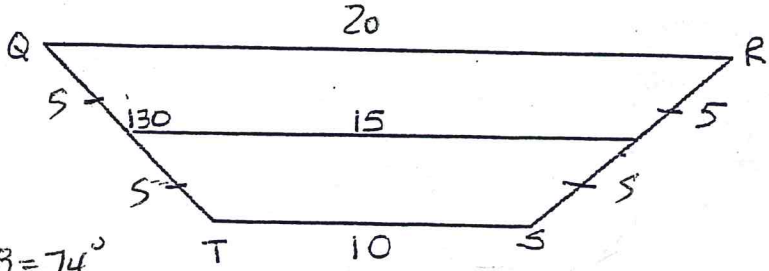




$5(26)-12$
$26 \times 5 = 130$, $130 - 12 = 118$

$5x-12 = 3x+40$
$2x = 52$
$x = 26$

$m\angle G = 118°$
$m\angle J = 62°$
$m\angle I = 62°$



perimeter of $\triangle KLM$ = $16+30+28 = 74°$

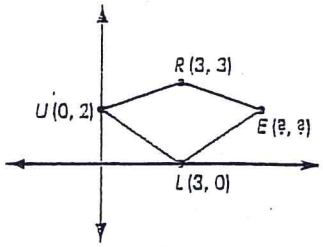
$m\angle O = 50°$
$m\angle P = 90°$

Perimeter of trapezoid QRST = 50 cm

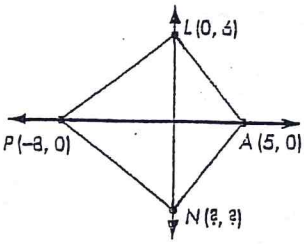
$m\angle Q = 50°$
$m\angle R = 50°$
$m\angle T = 130°$
$m\angle S = 130°$

Name Key Period _____ Date _____

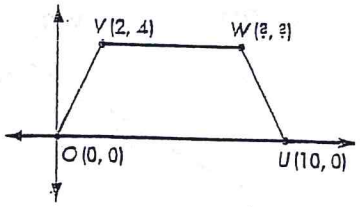
10. RULE is a kite. What are the coordinates of point E? (6, 2)



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

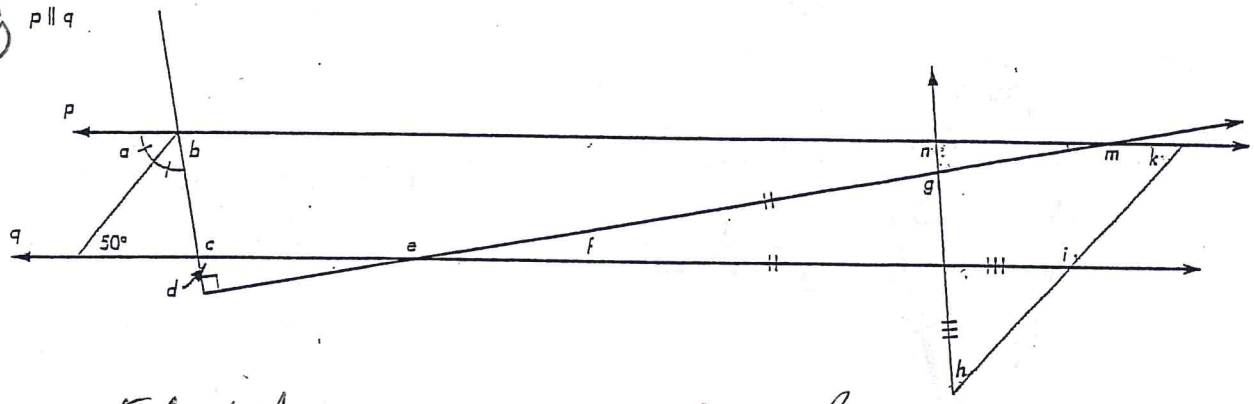


12. *UOVW* is an isosceles trapezoid. What are the coordinates of point W? (8, 4)



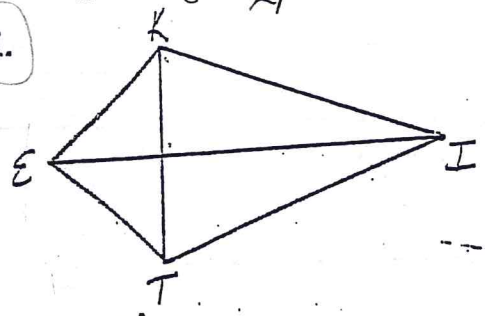
13. Calculate the measure of each lettered angle.

a-g



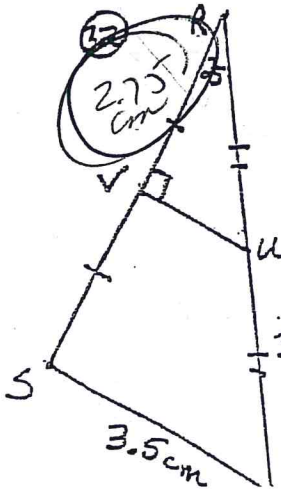
a = 50° AIA
b = 80° LP
c = 100° AIA to 2a, or CIA
d = 80° LP
e = 170° Δ Sum, LP
f = 10° LP
g = 85° Δ Sum, isos Δ
h = 47.5° VA, Δ Sum, isos Δ
i = 132.5° isos Δ, LP
k = 47.5° CA
m = 170° Rect Sum ok?
n = 95° LP, Δ Sum

31.



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

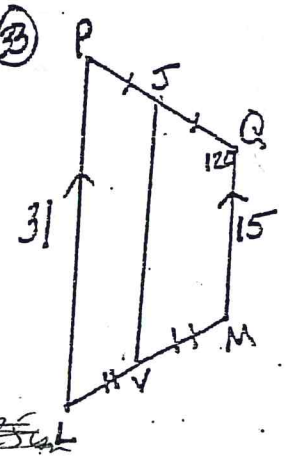
32



a) m∠TSV = 90°
b) m∠T = 65°
c) RT = 6 cm
d) $\overline{VU}$ = 1.75 cm

If perimeter = 15 cm of Δ RST then
e) RV = ~~4.5 cm~~ 2.25 cm

33



a) m∠QJV = 60°
b) m∠L = CBD
c) JV = 23 cm