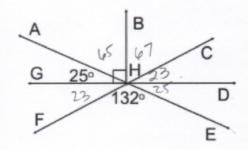
## 3rd 9-weeks TEST REVIEW

Analytic Geometry 3<sup>rd</sup> 9 Weeks Review Name: Period: Period:

1) Find the indicated angle measures using the picture to the right.

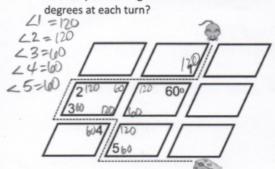
$$m\angle AHB = US$$
  
 $m\angle BHC = US$   
 $m\angle DHE = 2S$   
 $m\angle GHF = 2S$   
 $m\angle CHE = US$   
 $m\angle FHE = 132$   
 $m\angle FHD = 157$ 



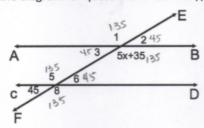
2) Brittany is walking home from school. She is walking down Maple towards Oak. When she reaches the end of Maple, she will continue on to Pine. What is the measure of the turn she-makes from Maple on to Pine?



3) The maze below has two intersecting sets of parallel paths. A mouse makes five turns in the maze to get a piece of cheese. Follow the mouse's path through the maze. What are the degrees at each turn?



Use the diagram for questions 4 - 15. AB // CD and are cut by transversal EF.



What type of angles are the following:

ALT. Ext

11) ∠2&∠8

SS EX

14)

**Z3&Z5** 

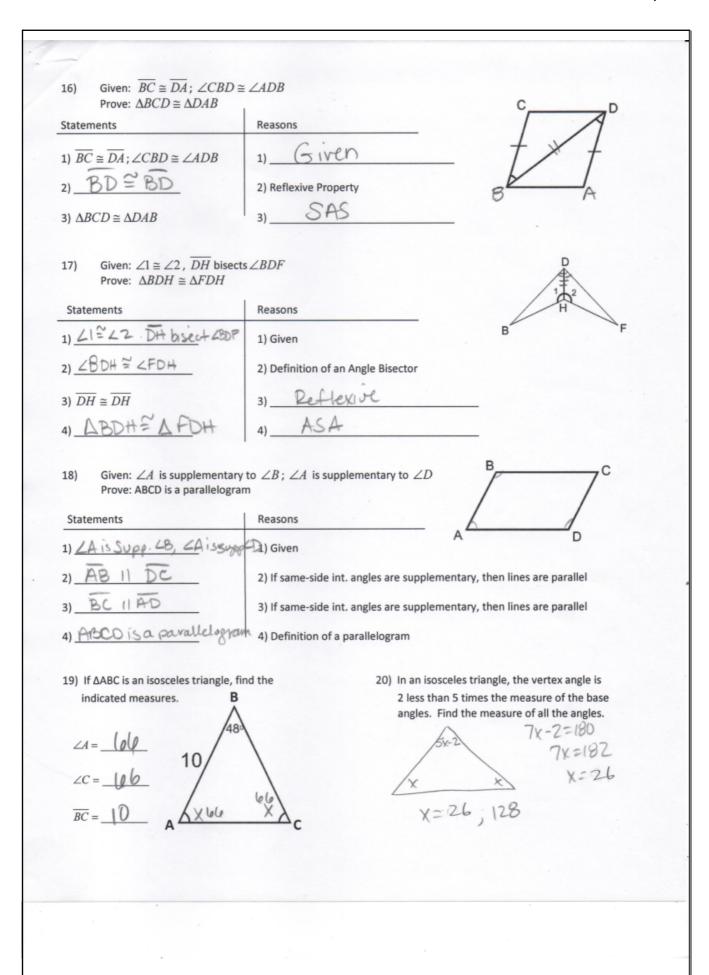
Corresponding

13) ∠1 & ∠5

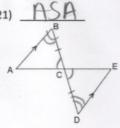
**Z3&Z6** 

15)

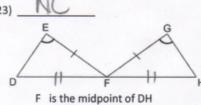
Corresponding
Alt In



Determine whether the following triangles are congruent. If yes, write a congruency statement and justify your answer (SSS, SAS, ASA, AAS)



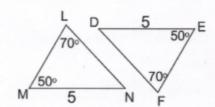




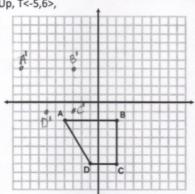
 $\overline{SV} \perp \overline{RT}$ ; V is the midpoint of RT



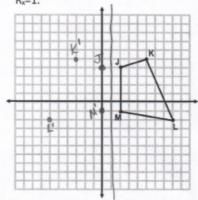
25) AAS



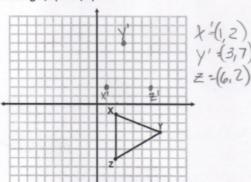
26) Translate ABCD 5 units to the left and 6 units Up, T<-5,6>,



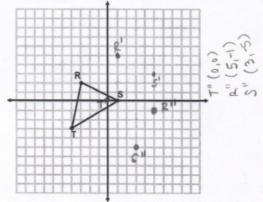
27) Reflect figure JKLM over the line x = 1,



28) Rotate ΔXYZ 270° clockwise about the origin, r(270°,O).



29) Translate the figure right 4 and up 3 and then rotate 90°, T<4,3>or(90°, O).



30) Name the point of concurrency that goes with each special segment.

Median - Controld

Perpendicular Bisector - Craumcenter

Altitude - Orthocenter

Angle Bisector - In Center

31) If the point of concurrency is located on the midpoint of the hypotenuse of a right triangle, which special segments were constructed? Circumcenter

32) Where could the incenter of a triangle be located?

Inside only

33) Which point of concurrency is equidistance from the vertices of a triangle?

ceramanter

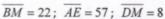
34) If point M is the centroid, find each of the indicated measures.

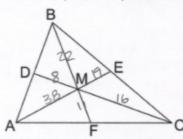
$$\overline{FM} = 1 \\
\overline{AM} = 38 \\
\overline{ME} = 19$$

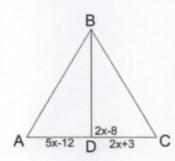
$$\frac{AM}{AM} = \frac{38}{38}$$

$$\frac{ME}{CM} = \frac{19}{10}$$

$$\frac{CD}{CD} = \frac{24}{38}$$







35) If  $\overline{BD}$  is an altitude, find the value of x. 2x-8=90 2x=9

36) If  $\overline{BD}$  is a median, find the value of x.