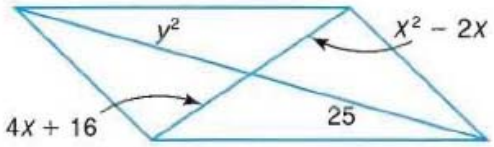
Geometry **HW #_____** **Name_____**

Ch 5 Review B

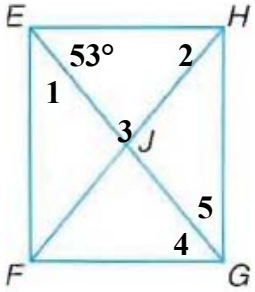
Date_____Per._____ Col._____

SHOW WORK NEATLY

1. Find the values of *x* and *y* that make the quadrilateral a parallelogram.



2. Given: rectangle *EFGH*, m∠*HEG* = 53



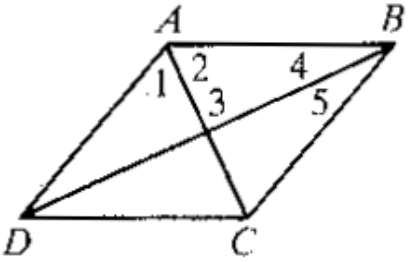
m∠1 = _____ m∠2 = _____

m∠3 = _____ m∠4 = _____

m∠5 = _____

3. In rectangle *EFGH*, *HF* = 4*x* – 60 and *EJ* = *x* + 5. Find the length of $\overline{JG}$._____

4. In rhombus *ABCD*, m∠2 = 59.



m∠4 =

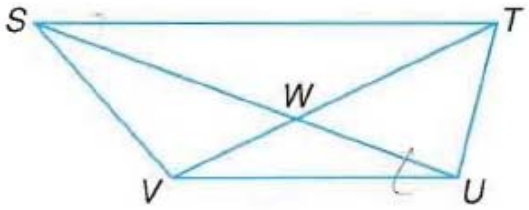
m∠*ABC* =

m∠3 =

m∠*BCD* =

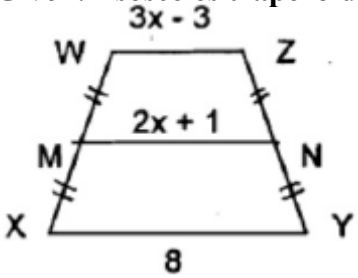
m∠*ACD* =

5. Given: trapezoid *STUV* with $\overline{ST} \parallel \overline{VU}$, m∠*STV* = 45, m∠*SWT* = 127



m∠*UVT* = **m∠*WUV* =**

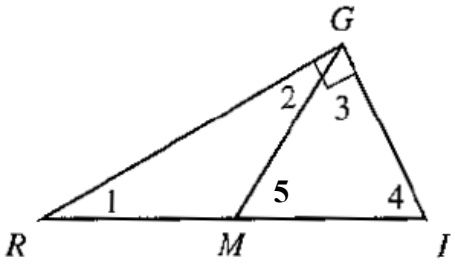
Given: Isosceles trapezoid *WXYZ* with median $\overline{MN}$.



6. If m∠*W* = 108, m∠*MNY* = _____ and m∠*Y* = _____.

7. Find *x*.

Given: right ΔRIG with median $\overline{GM}$

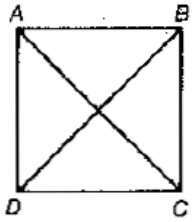


8. If $RI = 13$, then $RM =$ _____ and $GM =$ _____

9. If $m\angle 1 = 35$, $m\angle 2 =$ _____, $m\angle 4 =$ _____,

and $m\angle 5 =$ _____.

Give the most specific name--parallelogram, rectangle, rhombus, square, trapezoid, or isosceles trapezoid—for quad. *ABCD*. (hint: draw and mark figures)



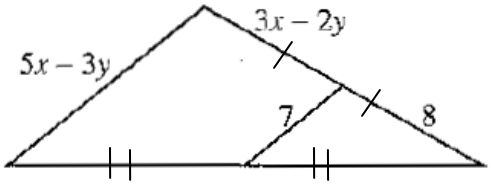
10. $\overline{AC}$ and $\overline{BD}$ are perpendicular bisectors of each other_____

11. *ABCD* is a parallelogram with $m\angle BAD = 90$_____

12. $\overline{AC}$ and $\overline{BD}$ bisect each other_____

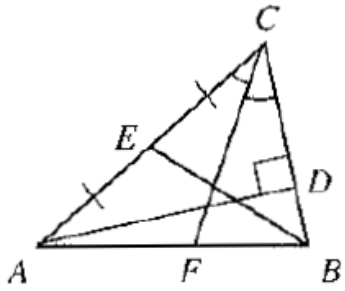
13. $m\angle BAD + m\angle ADC = 180$, $m\angle ABC + m\angle BCD = 180$, $AB \neq DC$ _____

14. Find x and y.



15. (review)
In ΔMTN, $\angle M \cong \angle N$, $MT = 9x + 2$, $TN = 3x + 20$, and $MN = 6x + 14$. Find the length of $\overline{MN}$.

16. (review) Name the following:



altitude_____

median_____

angle bisector_____

17. (review) $\Delta CAR \cong \Delta PET$, $m\angle A = m\angle E = 90$, $m\angle R = 58$, $m\angle P = 4x - 8$. Find x.