Geometry HW#____ Name_____

5-4 Special Parallelograms

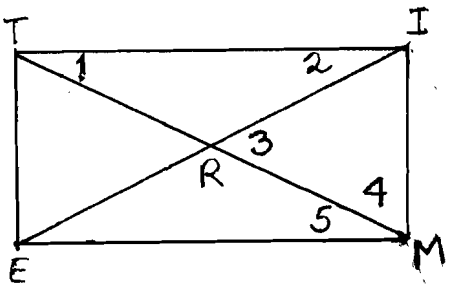
Per____ Col____ Date_____

1-3: use rectangle TIME

1. If m∠ 1 = 27, then m∠ 2 = _____, m∠ 3 = _____,

   and m∠ 4 = _____.

2. If m∠ 1 = $5x$ and m∠ 4 = $8x - 1$, then m∠ 1 = _____.



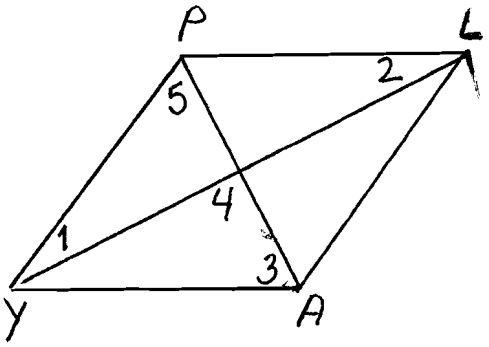
3. If m∠ 1 = $3y + 5$ and m∠ 5 = $40 - 2y$, then y = _____.

4-6: use rhombus PLAY

4. If m∠ 1 = 32, then m∠ 2 = _____, m∠ PLA = _____,

   m∠ LPY = _____, m∠ 3 = _____, and m∠ 5 = _____.

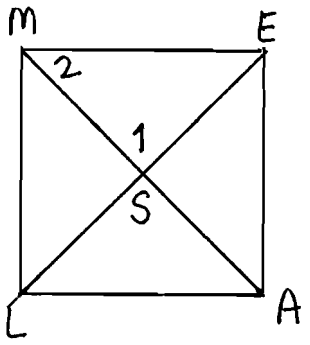
5. If m∠ 3 = $3x - 2$ and m∠ ALP = 58 , then x = _____.



6. If m∠ 5 = $3y + 9$ and m∠ 1 = $2y - 4$, then m∠ 1 = _____.

7 -10: use square MEAL

7. If $m\angle 1 = 10x^2$, then $x =$ _____.



8. If $m\angle 2 = 9y$, then $y =$ _____.

9. If $MA = 6x + 8$ and $SL = x^2$, then $EL =$ _____.

10. If the perimeter of MEAL is 60, $ML = 3x + 2y$, and $LA = 8x - 3y$,

then $x =$ _____ and $y =$ _____.

11-12: in right Δ WYX, $\angle$ X is a right angle, and $\overline{XZ}$ is a median.

11. If XZ = 8.2, then WZ = _____ and WY = _____.

12. If $m\angle 1 = 30$, then $m\angle 2 =$ _____, $m\angle 3 =$ _____,

and $m\angle 4 =$ _____.