Name: _____ Per: ____

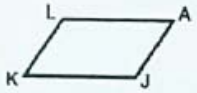
25-G

Chapter 7 Review Worksheet #3

SHOW ALL WORK!! BOX YOUR ANSWERS.

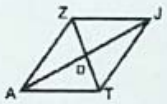
Find the value of x in the following parallelograms:

1. $m\angle A = 73°$
   $m\angle K = 3x + 70°$

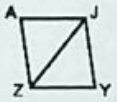


2. $\overline{AJ} = 32$
   $\overline{BN} = 11x - 1$

3. $\overline{ZT} = 50$
   $\overline{ZD} = 2x + 17$

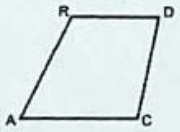


4. $m\angle JZY = 38°$
   $m\angle JAZ = 67°$
   $m\angle AZJ = x + 70°$

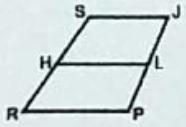


Find the value of x in the following trapezoids:

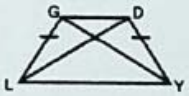
5. $m\angle R = 115°$
   $m\angle A = 7x + 51°$



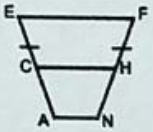
6. $\overline{SJ} = 11$
   $\overline{RP} = 37$
   $\overline{HL} = 3x + 12$



7. $\overline{GY} = 12$
   $\overline{LD} = 5x - 3$

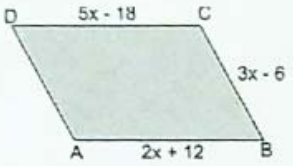


8. $\overline{AN} = 11$
   $\overline{CH} = 25.5$
   $\overline{EF} = x + 36$

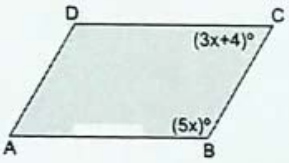


Answer each question. Show your work and box your answers.

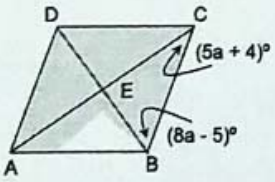
The sides of parallelogram $ABCD$ are represented as shown.
Find DA.



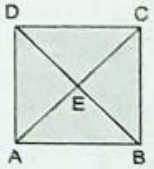
9. Given parallelogram $ABCD$ with $m\angle B = 5x$ and $m\angle C = 3x+4$.
Find the number of degrees in $\angle D$.



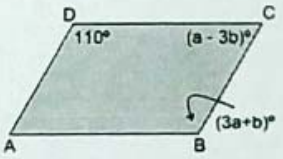
10. In rhombus $ABCD$, $m\angle ECB = 5a+4$ and $m\angle EBC = 8a - 5$.
Find $m\angle EBC$.



11. Given square $ABCD$ with diagonals $\overline{AC}$, $\overline{BD}$.
If $DB = 7x + 1$ and $AE = 2x + 11$, find EB.



12. Given parallelogram $ABCD$, labeled as shown. Find a and b.



13. Given square $CANE$ with diagonals intersecting at B. $m\angle CNE = 3a + 2b$, $AC = 35$, and $CE = 6a + 5$.
Find the value of $a + b$.