

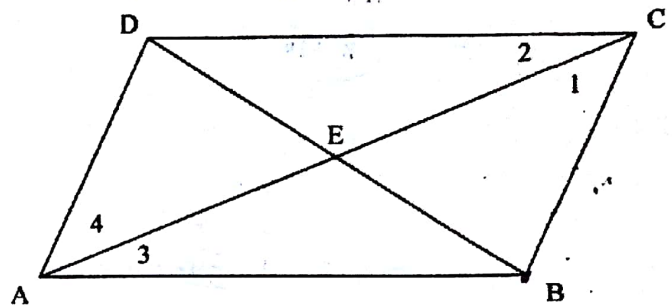
**Parallelogram Worksheet**

**I. Complete each statement.**

- In a parallelogram, opposite sides are congruent and parallel.
- In a parallelogram, consecutive angles are supplementary.
- In a parallelogram, diagonals bisect each other, which means they split each other in half.

**II. Complete each statement, using Parallelogram DCBA**

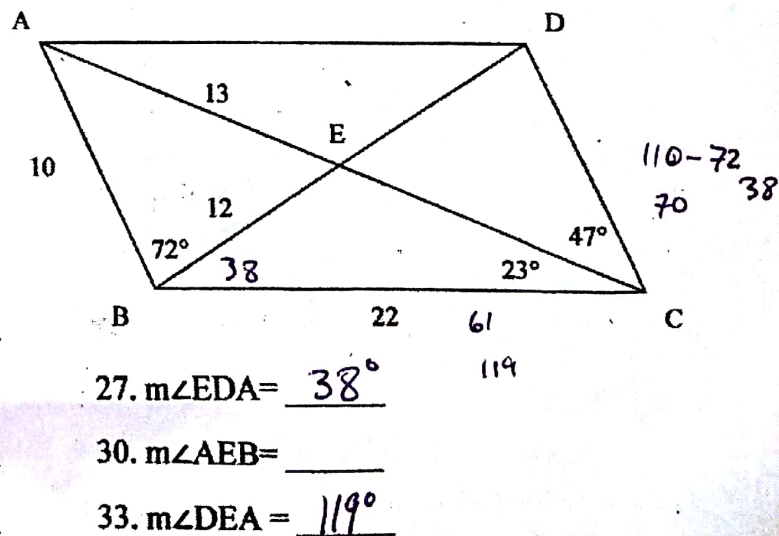
- If  $AD = 20$ , then  $BC = \underline{20}$
- If  $AB = 13$ , then  $DC = \underline{13}$
- If  $DB = 22$ , then  $DE = \underline{\quad}$
- If  $AE = 18$ , then  $AC = \underline{36}$
- If  $m\angle ADC = 115^\circ$ , then  $m\angle ABC = \underline{\quad}$
- If  $m\angle DAB = 75^\circ$ ,  $m\angle ADC = \underline{105^\circ}$
- If  $m\angle AED = 72^\circ$ ,  $m\angle DEC = \underline{108^\circ}$
- If  $AC = 30$  and  $AE = 3x + 3$ ,  
then  $x = \underline{4}$   $3x + 3 = 15$   
 $x = 4$



- If  $m\angle 1 = 30^\circ$ , then  $m\angle 4 = \underline{\quad}$
- If  $m\angle ADC = 130^\circ$ , and  $m\angle 1 = 35^\circ$ ,  $m\angle 2 = \underline{\quad}$
- If  $DC = 6x + y$ ,  $BC = 3x + 2y$ ,  $AB = 25$ ,  
and  $AD = 14$ , then  $x = \underline{\quad}$  and  $y = \underline{\quad}$

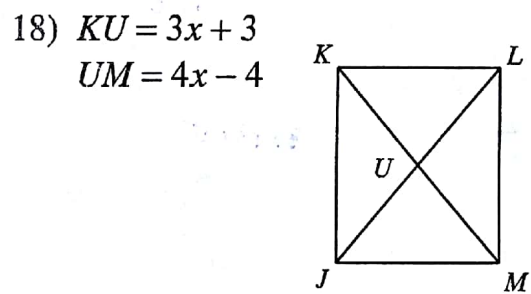
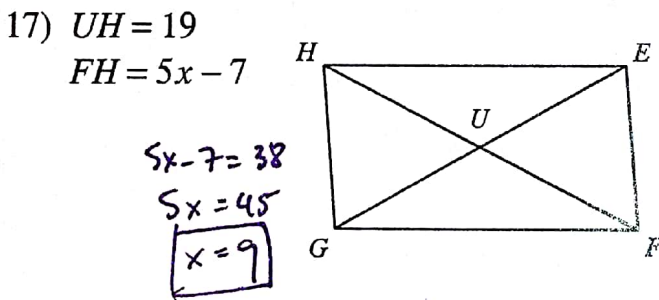
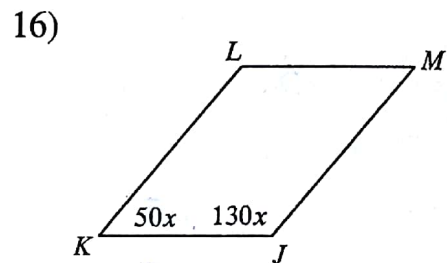
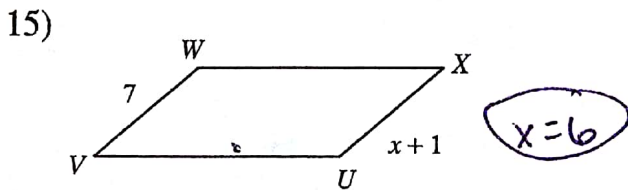
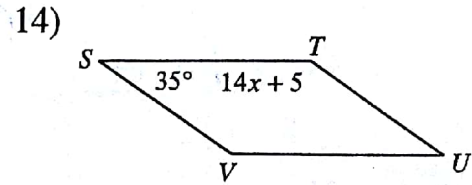
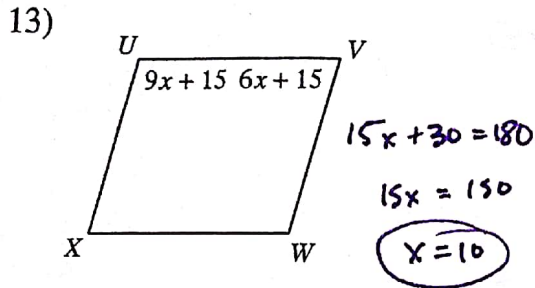
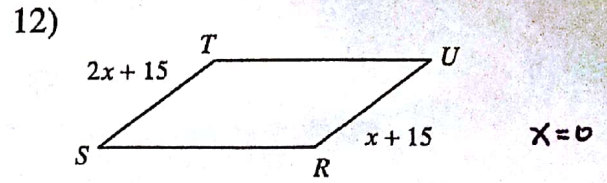
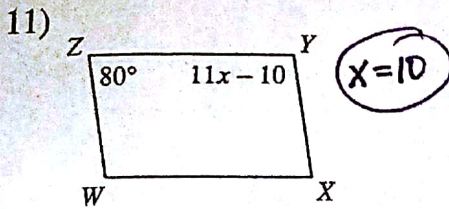
**III. Find the missing measurements of Parallelogram ADCB.**

- |   |  |
|---|--|
| 15. $CD = \underline{10}$                 | 16. $DA = \underline{\quad}$             |
| 17. $AC = \underline{26}$                 | 18. $DB = \underline{\quad}$             |
| 19. $CE = \underline{13}$                 | 20. $DE = \underline{\quad}$             |
| 21. $m\angle ABC = \underline{38^\circ}$  | 22. $m\angle BCE = \underline{\quad}$    |
| 23. $m\angle BCD = \underline{70^\circ}$  | 24. $m\angle ADC = \underline{\quad}$    |
| 25. $m\angle BAD = \underline{70^\circ}$  | 26. $m\angle CDE = \underline{\quad}$    |
| 28. $m\angle DAE = \underline{\quad}$     | 29. $m\angle EAB = \underline{47^\circ}$ |
| 31. $m\angle BEC = \underline{119^\circ}$ | 32. $m\angle CED = \underline{\quad}$    |



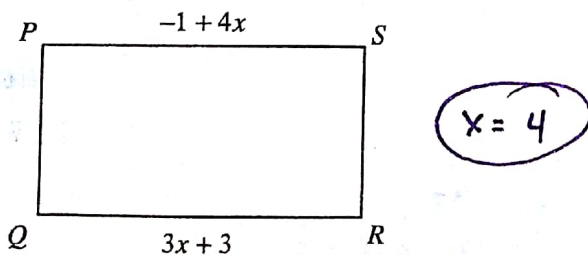
- $m\angle EDA = \underline{38^\circ}$
- $m\angle AEB = \underline{\quad}$
- $m\angle DEA = \underline{119^\circ}$

Solve for  $x$ . Each figure is a parallelogram.

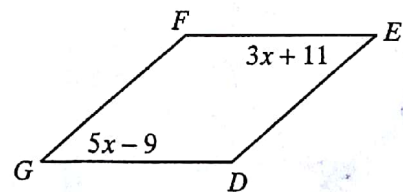


Find the measurement indicated in each parallelogram.

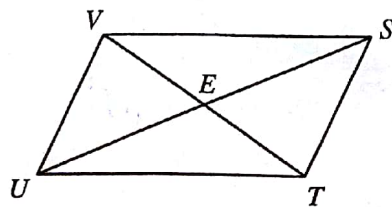
19) Find  $RQ$



20) Find  $m\angle G$



21)  $TE = 4 + 2x$   
 $EV = 4x - 4$   
Find  $TE$



$2x = 8$

$x = 4$

$12$

22) Find  $m\angle TSR$

