

Choose a word from the word bank to complete each sentence. Words will be used more than once.

1. A quadrilateral with two pairs of parallel sides is a _____
2. The opposite **sides** of a parallelogram are _____
3. The opposite **angles** of a parallelogram are _____
4. The consecutive **angles** of a parallelogram are _____
5. The **diagonals** of a parallelogram _____ each other.

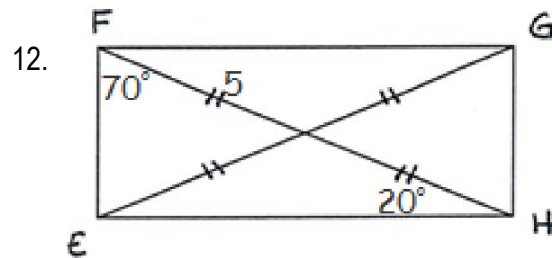
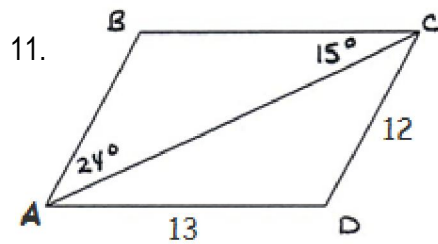
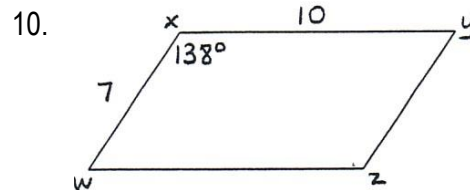
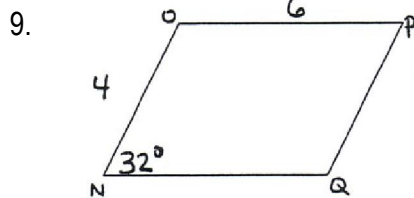
parallelogram
congruent
supplementary
bisect

Use parallelogram MATH to answer #6-8.

6. Name **two pairs** of congruent angles. _____ and _____
7. Name **four pairs** of supplementary angles. _____, _____, _____ and _____
8. Name **two pairs** of congruent segments. _____ and _____



Find the missing angles and sides. Label them **ON THE PICTURES**.

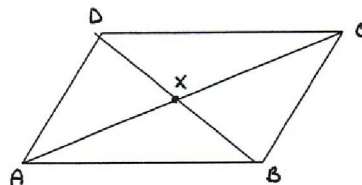


Use parallelogram ABCD to answer the following questions.

13. If $DX = 4$ and $AX = 6$ find:

$BX =$ _____ $BD =$ _____

$XC =$ _____ $AC =$ _____

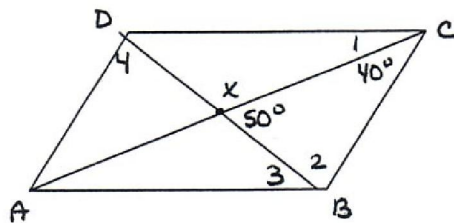


14. If $m\angle ABC = 120^\circ$, find:

$m\angle ADC = \underline{\hspace{2cm}}$ $m\angle DAB = \underline{\hspace{2cm}}$

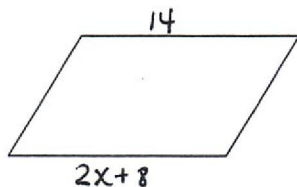
$m\angle 1 = \underline{\hspace{2cm}}$ $m\angle 2 = \underline{\hspace{2cm}}$

$m\angle 3 = \underline{\hspace{2cm}}$ $m\angle 4 = \underline{\hspace{2cm}}$

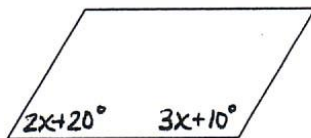


Using the properties of parallelograms, write and solve an **algebraic equation** for each picture.

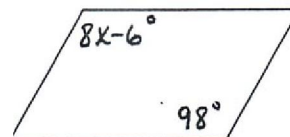
15.



16.



17.



Relationship: *congruent or supplementary*

Equation:

Relationship: *congruent or supplementary*

Equation:

Relationship: *congruent or supplementary*

Equation:

$x = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$