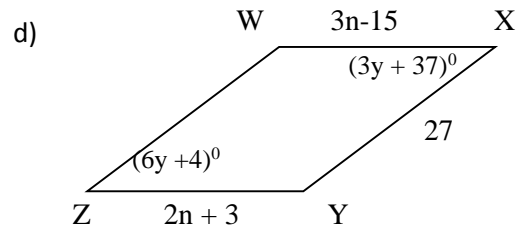
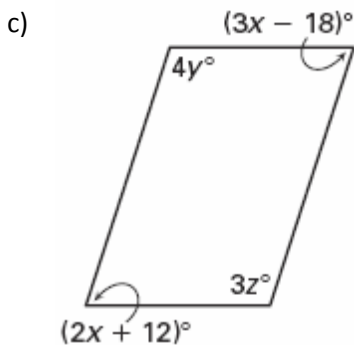
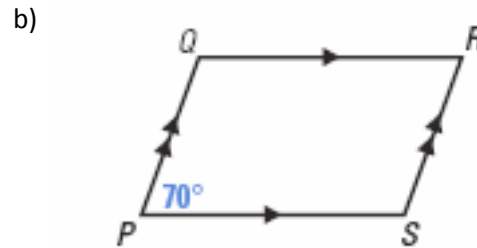
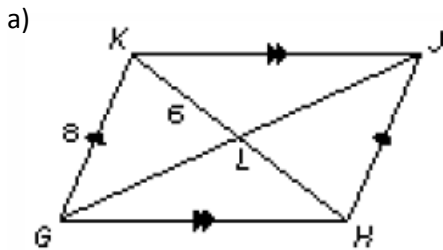


Properties of Parallelograms Guided Notes

Definition of Parallelogram		
If a quadrilateral is a parallelogram...		

Ex. 1: Sides & Angles in Parallelograms

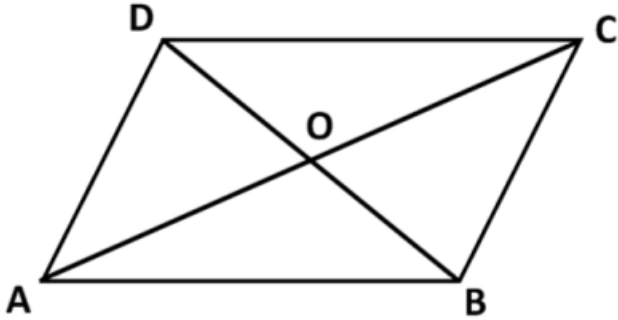
Find the missing side lengths and the missing angles in the following parallelograms.



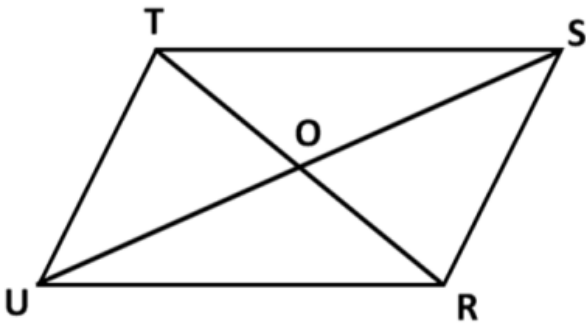
Properties of Parallelograms Guided Notes

Ex. 2: Diagonals of Parallelograms

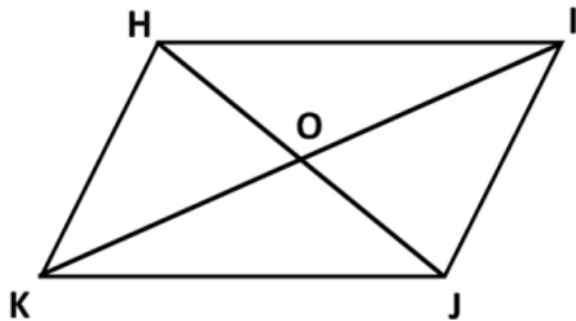
a) ABCD is a parallelogram. $AO = 15$; $DB = 10$. Find CO , DO , and BO .



b) RSTU is a parallelogram $RO = y + 3$; $SO = 2x$;
 $TO = 3y - 7$; $UO = x + 5$. Find x and y .



c) HIJK is a parallelogram $IO = b + 2$;
 $HO = a$; $KO = 3b - 10$; $JO = 2a - 8$.
Find a and b .



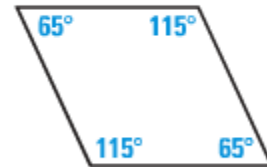
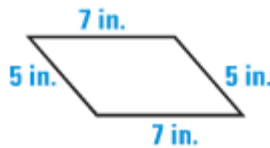
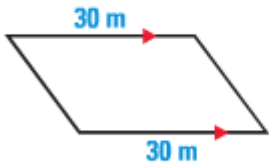
Properties of Parallelograms Guided Notes

Proving Parallelograms

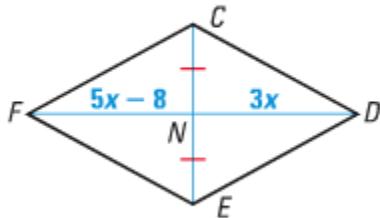
Objective: To use relationships to prove quadrilaterals are parallelograms.

Ways to Prove a Quadrilateral is a Parallelogram	

Ex. 1 How can you show that the quadrilateral is a parallelogram?



Ex. 2 For what value of x is quadrilateral $CDEF$ a parallelogram?



Ex. 3 Show that quadrilateral $ABCD$ is a parallelogram.

