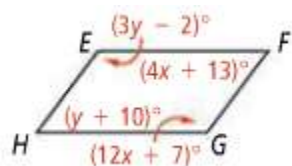


**\*Objective:**

*Proving that a Quadrilateral is a Parallelogram		
*Method	*Source	*Diagram

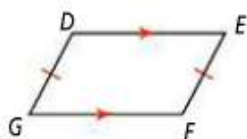
**Got It?** 1. Use the diagram at the right. For what values of  $x$  and  $y$  must  $EFGH$  be a parallelogram?



**Got It?** 2. Can you prove that the quadrilateral is a parallelogram based on the given information? Explain.

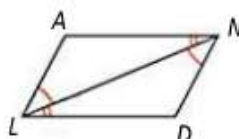
**a. Given:**  $\overline{EF} \cong \overline{GD}$ ,  $\overline{DE} \parallel \overline{FG}$

**Prove:**  $DEFG$  is a parallelogram.



**b. Given:**  $\angle ALN \cong \angle DNL$ ,  $\angle ANL \cong \angle DLN$

**Prove:**  $LAND$  is a parallelogram.



**Inclass:** p. 372-373 #16, 22

**Homework:** p. 372-373 #7-25(odd), not #19 or 21

**Interactmath:** #7, 11, 13, 14, 16, 24