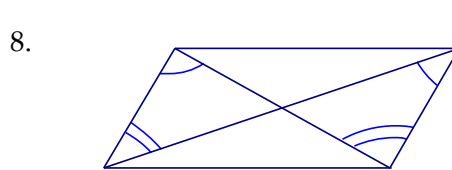
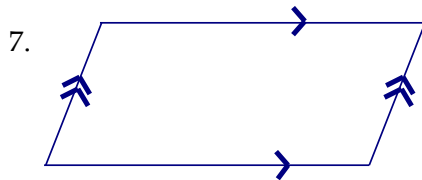
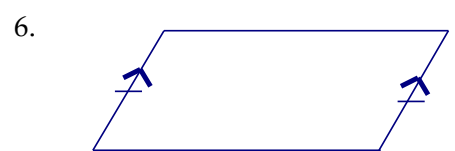
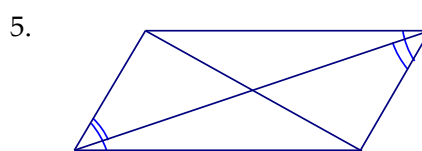
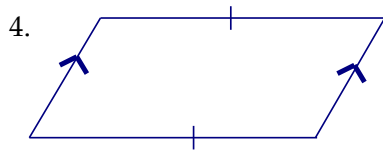
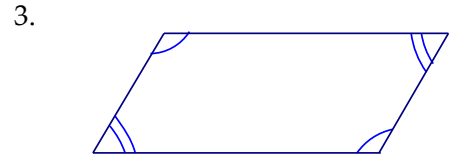
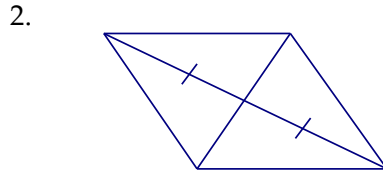
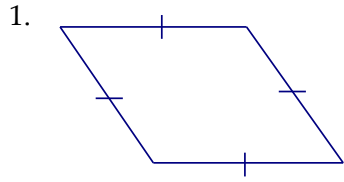


Name: _____ Class Period: _____ Date: _____

Alpha Geometry

Chapter 5 Worksheet 5.6 ~ Proving that a Quadrilateral is a Parallelogram

Based on the markings, decide if each figure must be a parallelogram.



Tell whether the information given about the quadrilateral RSTW is sufficient to determine that it is a parallelogram.

9. $\overline{RS} \parallel \overline{WT}$, $\overline{RS} \cong \overline{WT}$

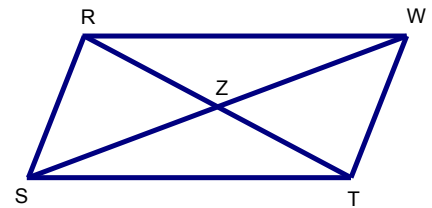
10. $\overline{RS} \parallel \overline{WT}$, $\overline{ST} \cong \overline{RW}$

11. $\overline{RS} \cong \overline{WT}$, $\overline{ST} \cong \overline{RW}$

12. $\angle SRW \cong \angle WTS$, $\angle RST \cong \angle TWR$

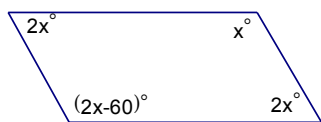
13. $\overline{RZ} \cong \overline{TZ}$, $\overline{SZ} \cong \overline{WZ}$

14. $\angle TSZ \cong \angle RSZ$, $\angle TWZ \cong \angle RWZ$

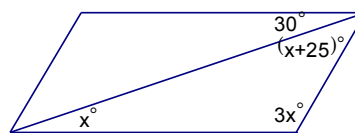


Find the value of x . Then tell whether the quadrilateral must be a parallelogram. Explain your answer.

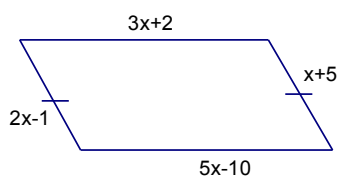
15.



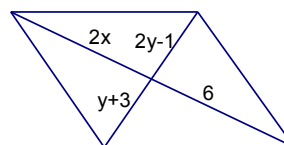
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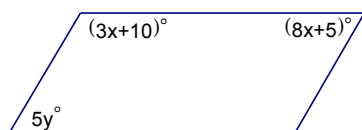
17.



18.



19.



20.

