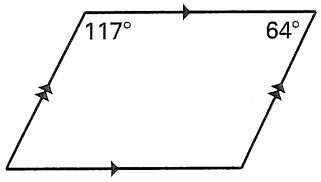
LESSON 6.2

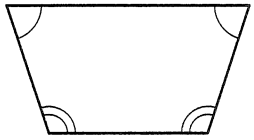
NAME _____ DATE _____

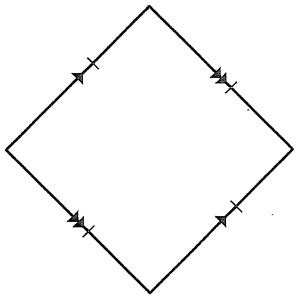
Practice C

For use with pages 330–337

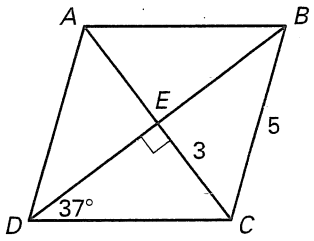
Decide whether the figure is a parallelogram. If it is not, explain why not.

1. 

2. 

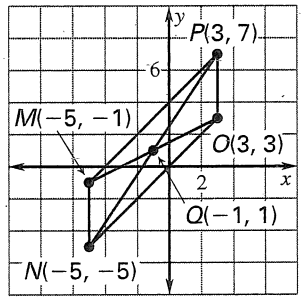
3. 

Use the diagram of parallelogram *ABCD* at the right. $\overline{AC} \perp \overline{BD}$. Find the indicated measures.



4. AE
5. AD
6. EB
7. DB
8. AB
9. Perimeter $\triangle AEB$
10. $m\angle DBA$
11. $m\angle DEC$
12. $m\angle ACD$
13. $m\angle CAB$
14. Perimeter of parallelogram $ABCD$

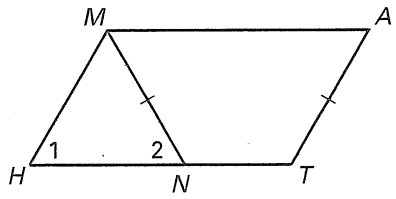
Use the diagram of parallelogram *MNOP* at the right.



15. Use the Distance Formula to show $\overline{MP} \cong \overline{NO}$.
16. Use the Distance Formula to show $\overline{MN} \cong \overline{PO}$.
17. Find the slope of $\overline{MP}$ and $\overline{NO}$.
18. Are $\overline{MP}$ and $\overline{NO}$ parallel? Explain.
19. Do the diagonals $\overline{MO}$ and $\overline{NP}$ bisect each other? Justify your answer.

Write a two-column or a paragraph proof.

20. **Given:** $\square MATH$
$\overline{MN} \cong \overline{AT}$
Prove: $\angle 1 \cong \angle 2$



21. **Given:** $\square ATRO$
$\overline{PT} \cong \overline{IP}$
Prove: $\angle I \cong \angle AOR$