Name _____ **Date** _____

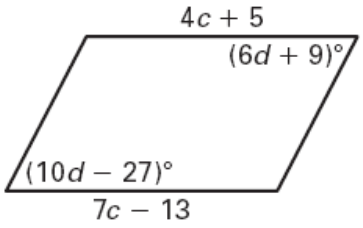
LESSON 8.2

Practice C

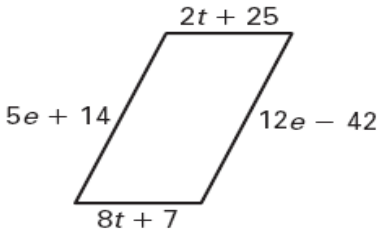
For use with pages 514–521

Find the value of each variable in the parallelogram.

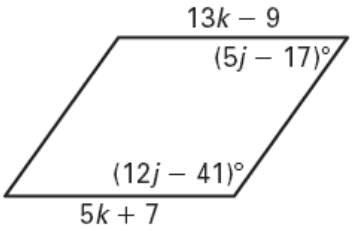
1.



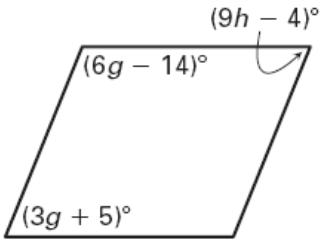
2.



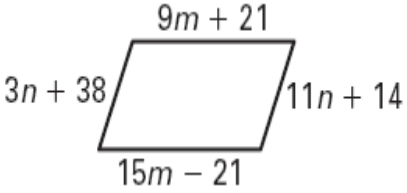
3.



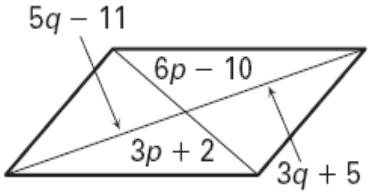
4.



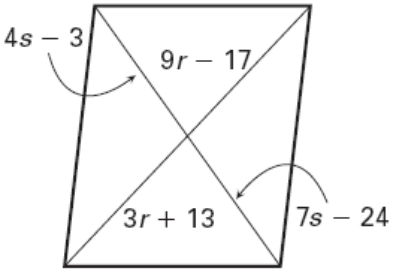
5.



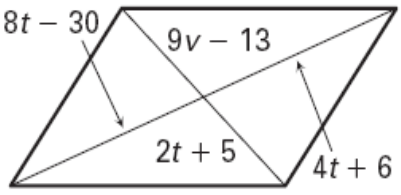
6.



7.



8.



Find the indicated measure in parallelogram *ABCD. Explain*.

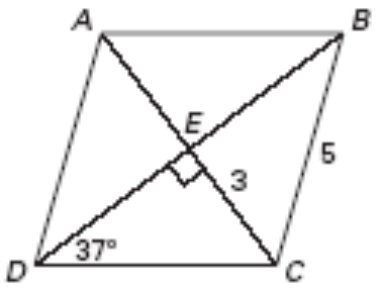
9. *AE*

10. *AD*

11. *EB*

12. *DB*

13. *AB*



14. Perimeter of $\triangle AEB$

15. $m\angle DBA$

16. $m\angle DEC$

17. $m\angle ACD$

18. $m\angle CAB$

19. Perimeter of *ABCD*

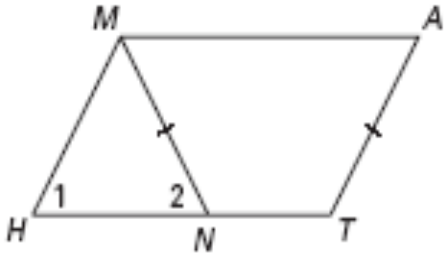
20. The measure of one interior angle of a parallelogram is 2.6 times the measure of another angle. Find the measure of each angle.

21. The measure of one interior angle of a parallelogram is 57.8 degrees more than the measure of another angle. Find the measure of each angle.

22. Complete the proof.

GIVEN: *MATH* is a parallelogram.
$\overline{MN} \cong \overline{AT}$

PROVE: $\angle 1 \cong \angle 2$



Statements	**Reasons**
1. *MATH* is a parallelogram.	**1.** _____
2. _____	**2.** Given
3. $\overline{AT} \cong \overline{MH}$	**3.** _____
4. _____	**4.** Transitive Property of $\cong$
5. $\angle 1 \cong \angle 2$	**5.** _____