No Bellwork
01/31/2012

Review 8.2

7. In parallelogram *WXYZ*, $m\angle W$ is 50 degrees more than $m\angle X$. Sketch parallelogram *WXYZ*. Find the measure of each interior angle. Then label each angle with its measure.

$m\angle X = \quad x = 65°$

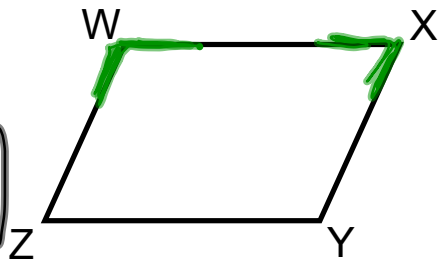
$m\angle W = x + 50 = 115°$

$x + x + 50 = 180$

$2x + 50 = 180$

$2x = 130$

$x = 65$



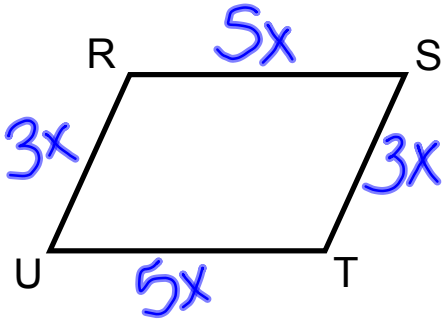
24. In parallelogram *RSTU*, the ratio of *RS* to *ST* is 5 : 3. Find *RS* if the perimeter of parallelogram *RSTU* is 64.

$5x + 3x + 5x + 3x = 64$

$16x = 64$

$x = 4$

$RS = 20$



Use the diagram of parallelogram *MNOP*. Points *Q*,*R*,*S*, and *T* are midpoints of MX, NX, OX, and PX. Find the indicated measure.

8. *PN* 12

9. *MQ* 5

10. *XO* 10

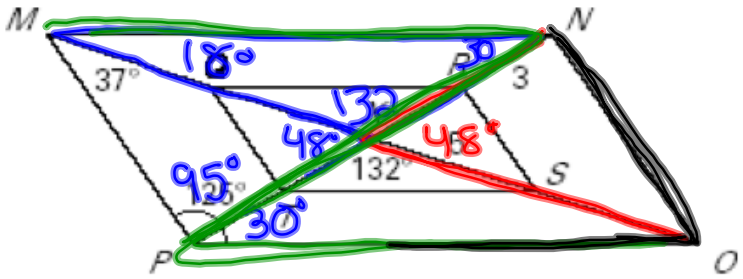
11. $m\angle NMQ$ 18°

12. $m\angle NXO$ 48°

13. $m\angle MNP$ 30°

14. $m\angle NPO$ 30°

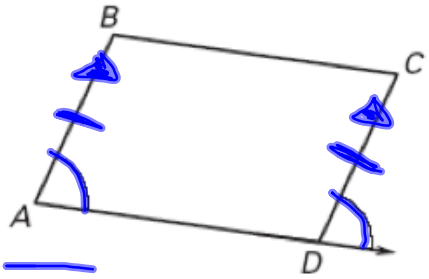
15. $m\angle NOP$ 55°



Review 8.3

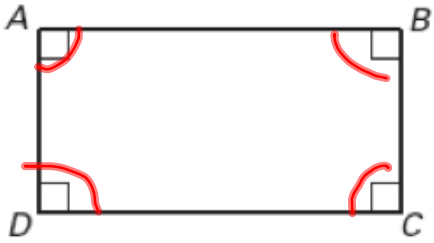
Describe **how to prove that *ABCD* is a parallelogram.**

11.



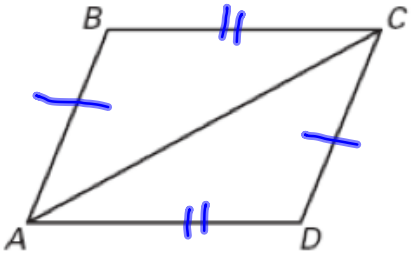
1. $\overline{AB} \parallel \overline{DC}$ by corresponding $\angle$'s post.
2. ABCD is a $\square$ by thm 8.9.

12.



1. $\angle A \cong \angle B \cong \angle C \cong \angle D$ by Right $\angle \cong$ thm.
2. ABCD is a $\square$ by thm 8.8.

13. **GIVEN:** $\Delta ABC \cong \Delta CDA$
PROVE: *ABCD* is a parallelogram.



Statements	Reasons
1. $\Delta ABC \cong \Delta CDA$	1. Given
2. $\overline{AB} \cong \overline{CD}, \overline{BC} \cong \overline{DA}$	2. CPCTC
3. ABCD is a parallelogram	3. thm 8.7

Homework Assignment
Pg. 910 #1-21, 26-28