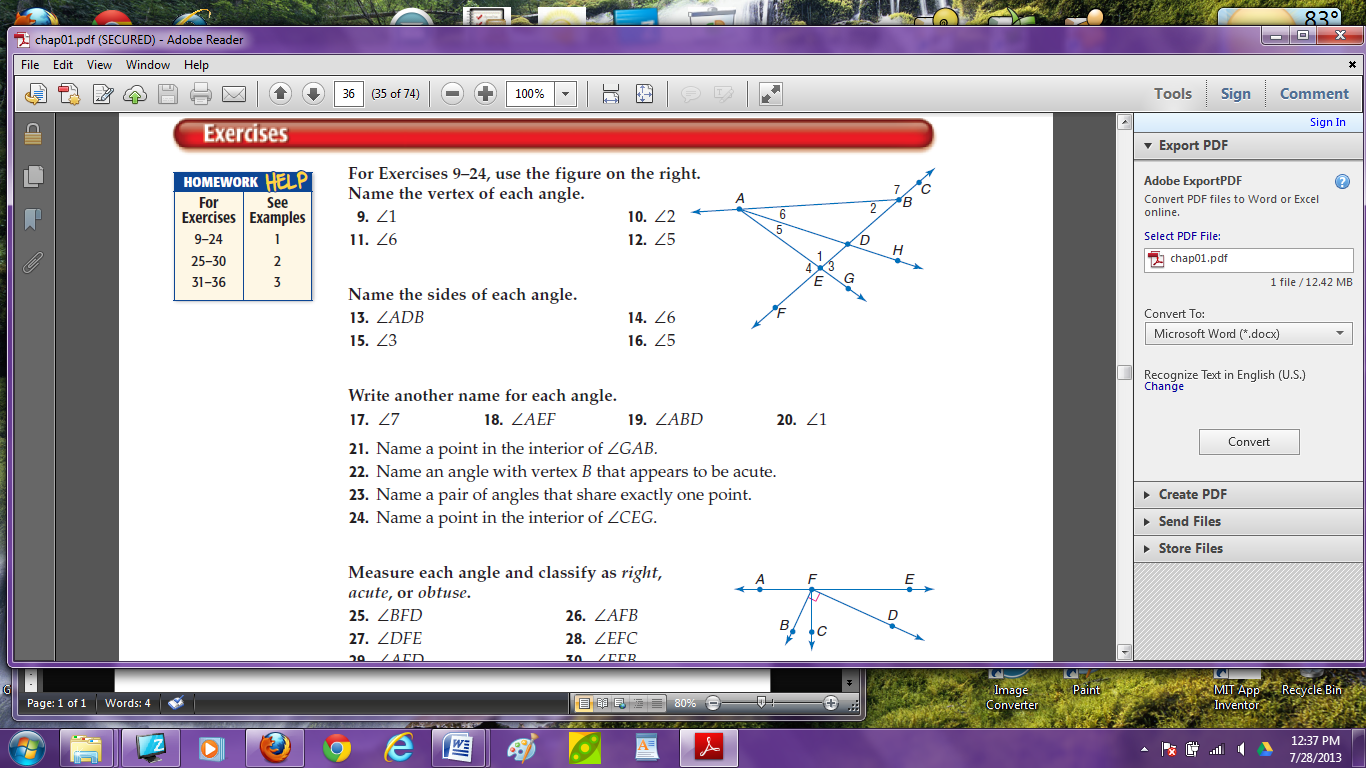
# Angle Measure Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Worksheet

Use the figure on the right to answer # 1-8

Name the vertex of each angle

1. ∠2 2. ∠5



Name the sides of each angle

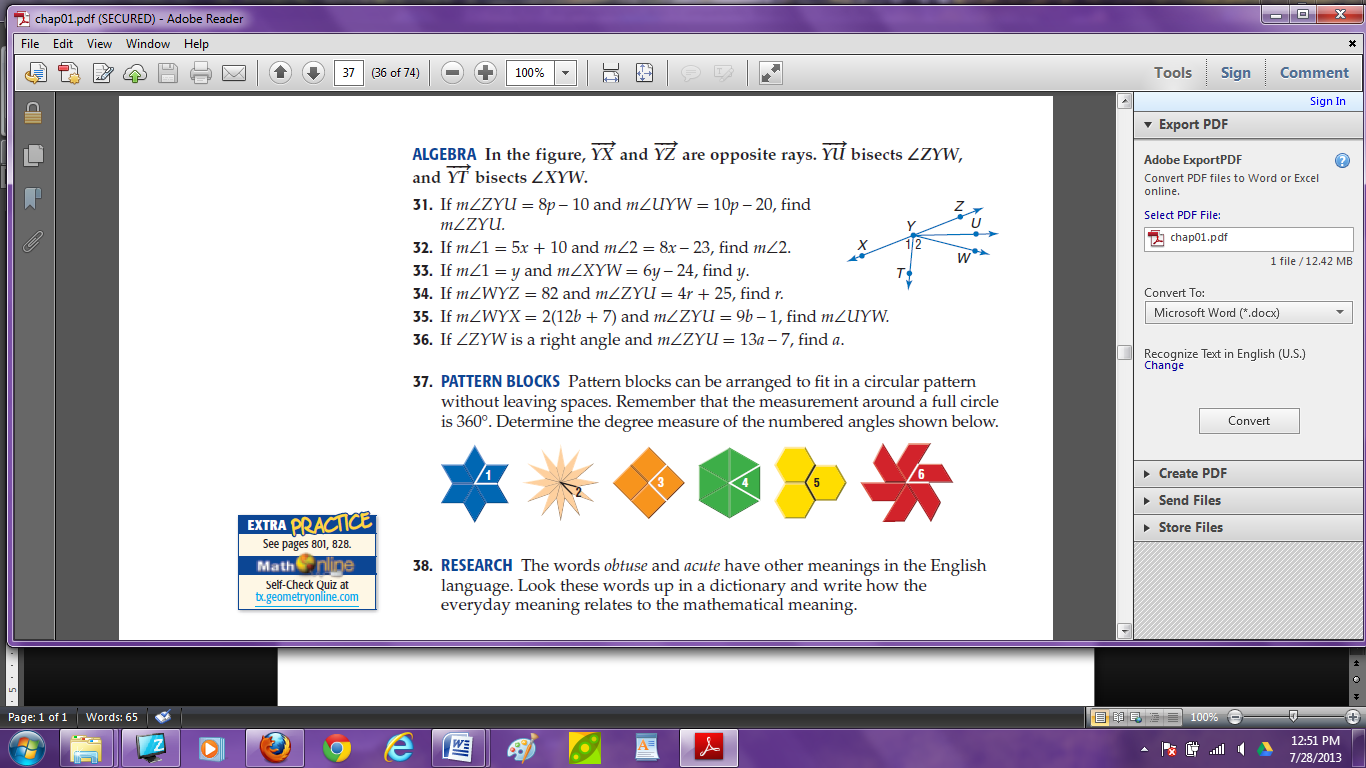
3. ∠6 4. ∠3

Name each angle two different ways

5. ∠AEF 6. ∠1

7. Name an angle with vertex B that appears to be acute

8. Name a point in the interior of ∠CEG



Use the figure on the right to answer #9-12.

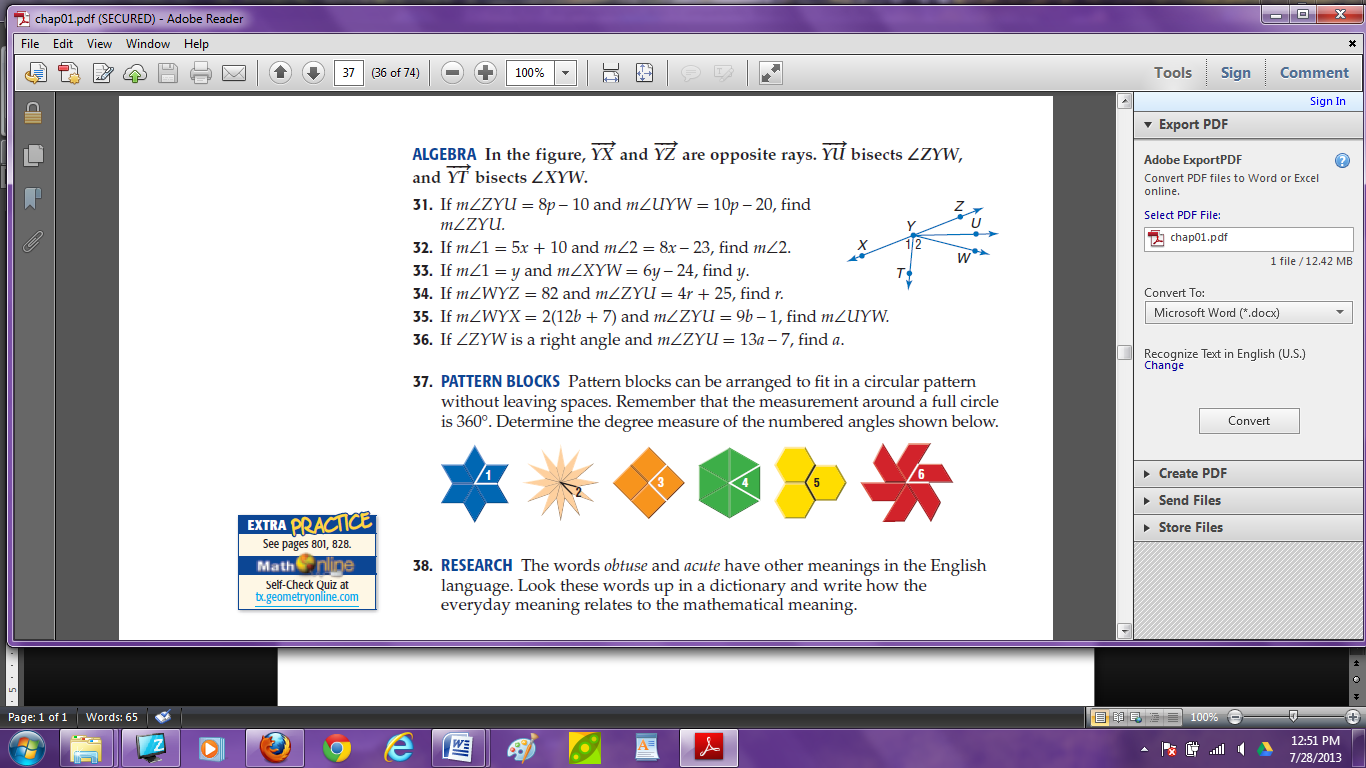
YX and YZ are opposite rays. YU bisects ∠ZYW. YT bisects ∠XYW.

9. If m∠1 = 5*x* + 10 and m∠2 = 8*x* – 23, find m∠2

10. If m∠WYZ = 82 and m∠ZYU = 4*r* + 25, find *r*

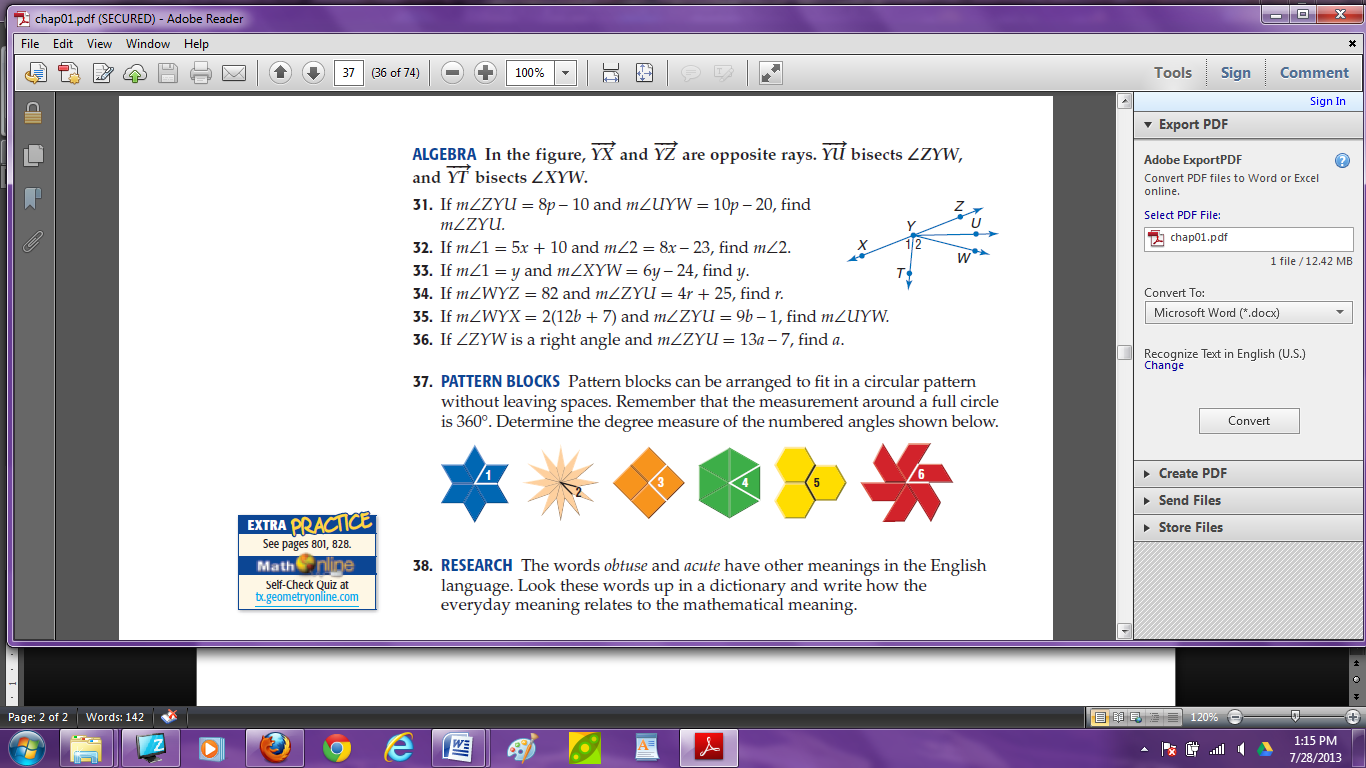
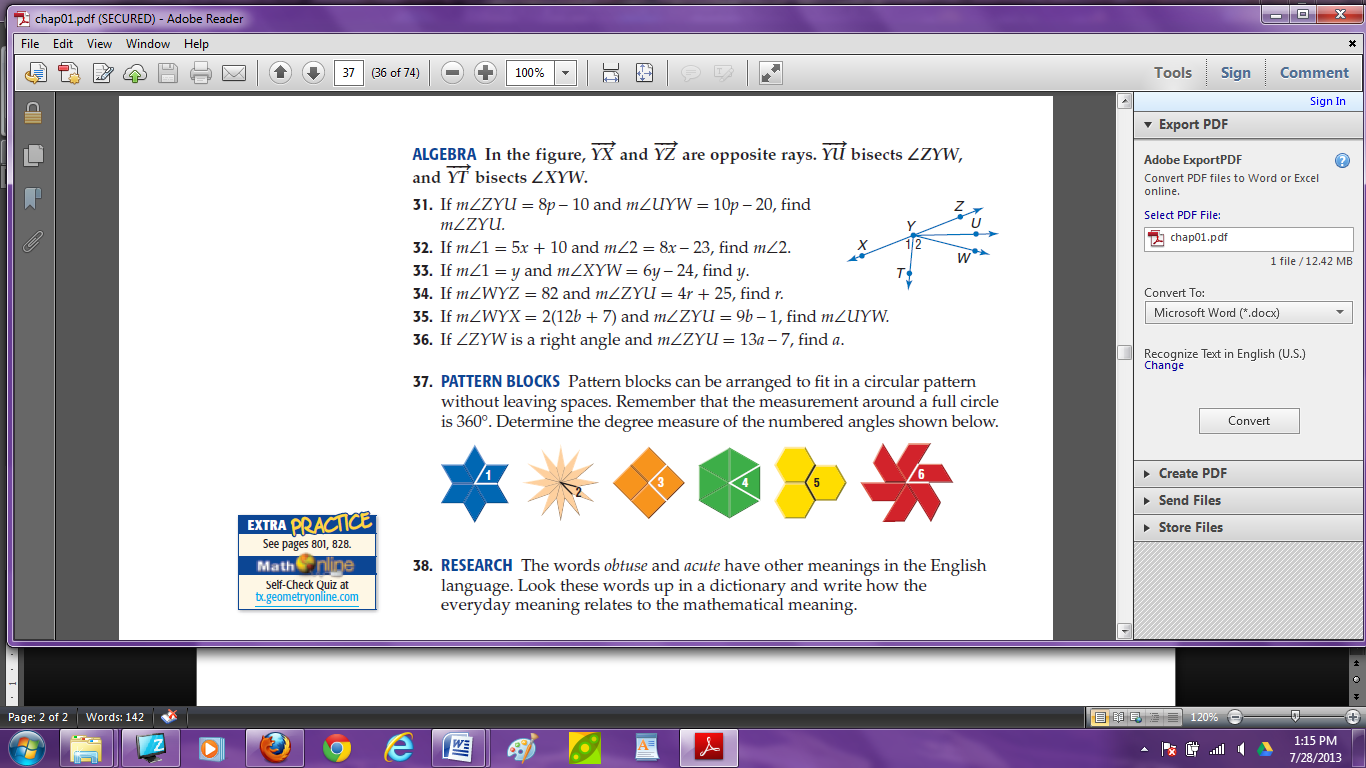
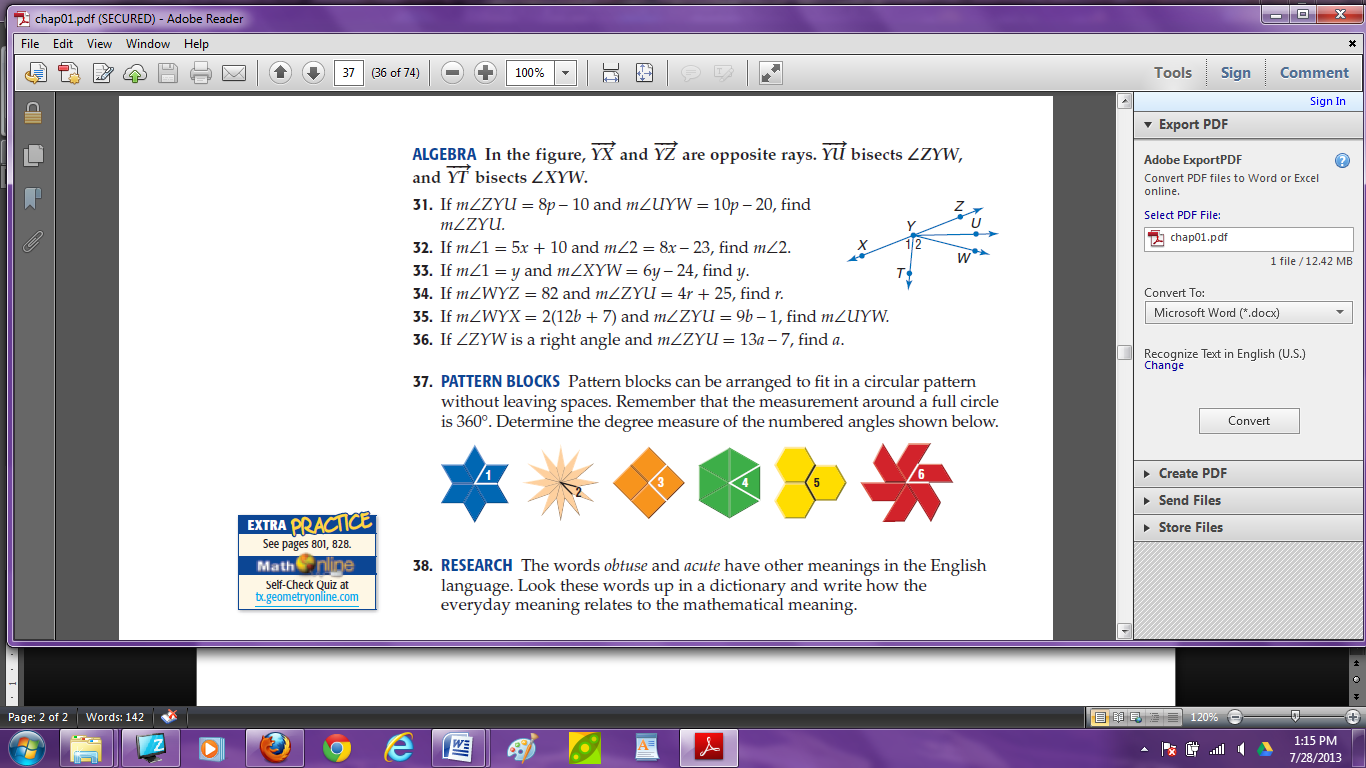
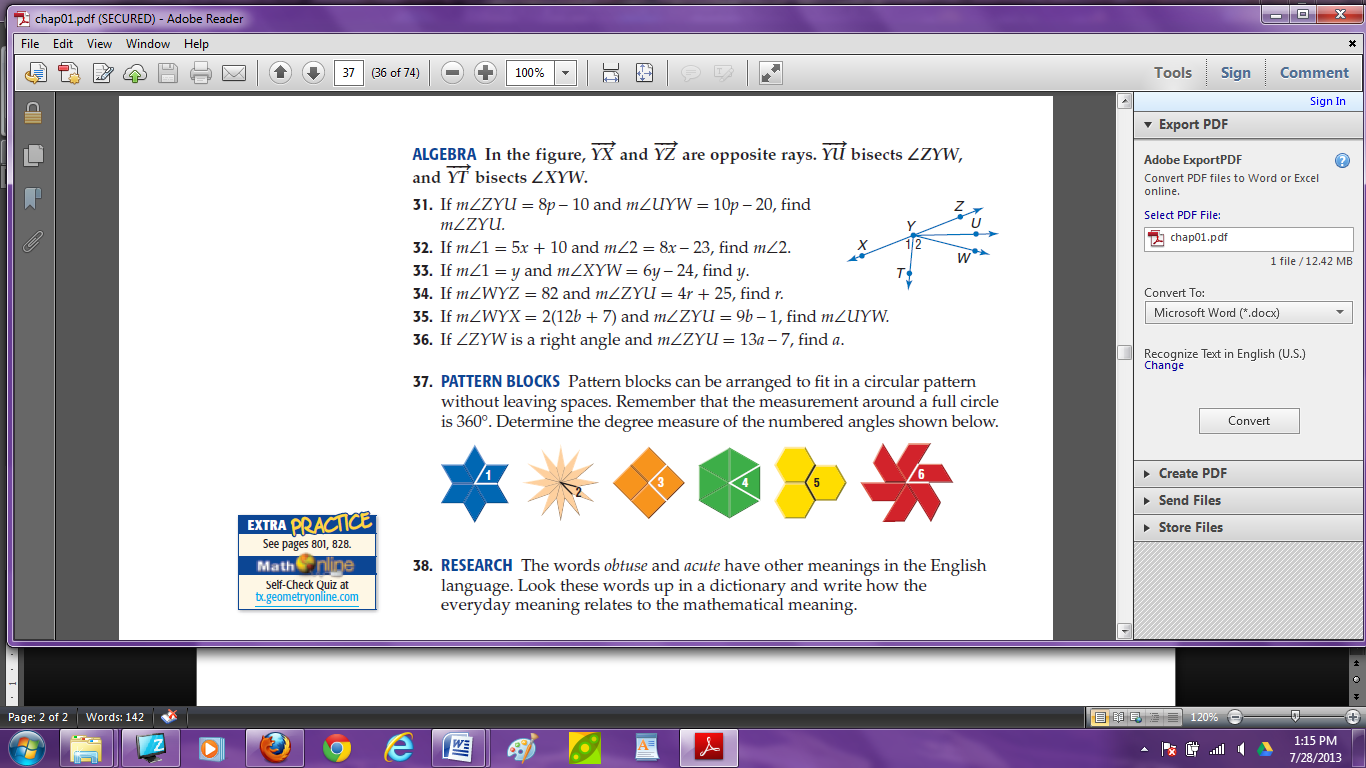
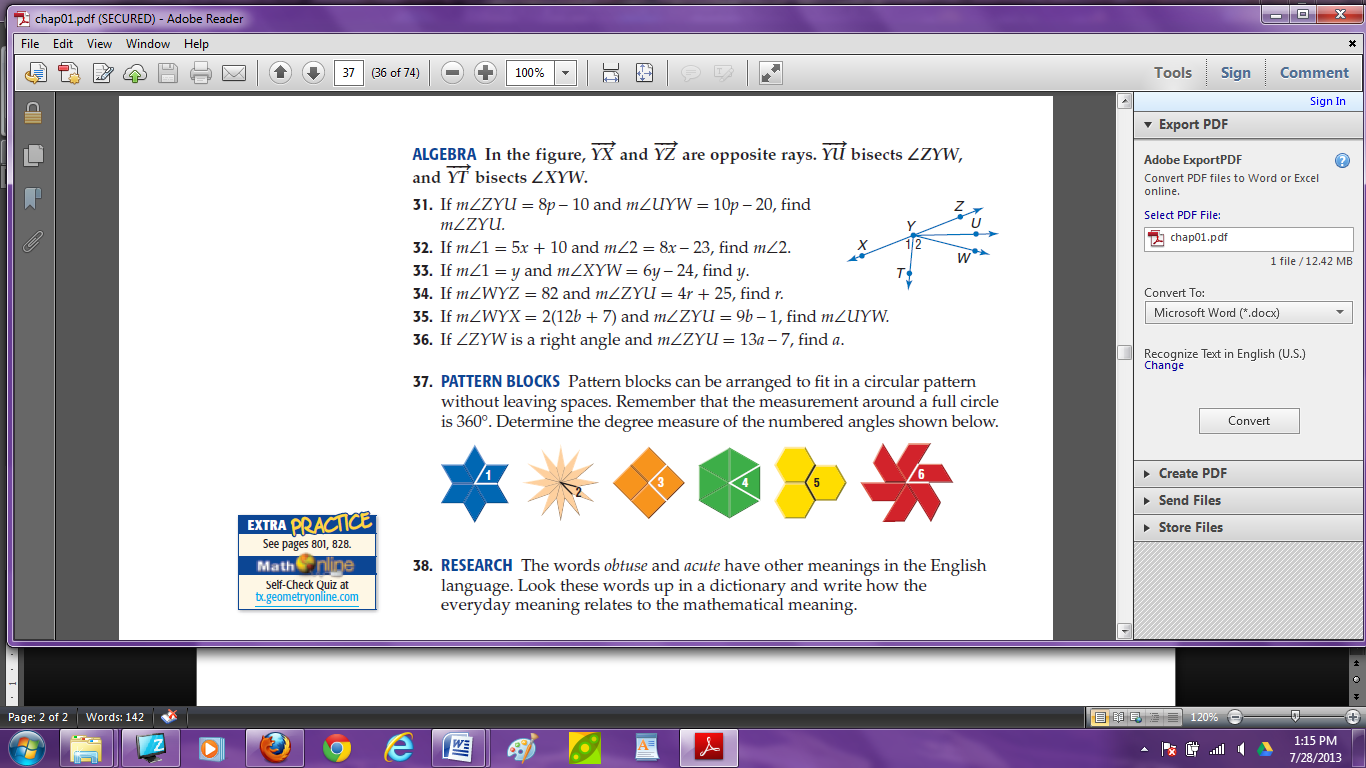
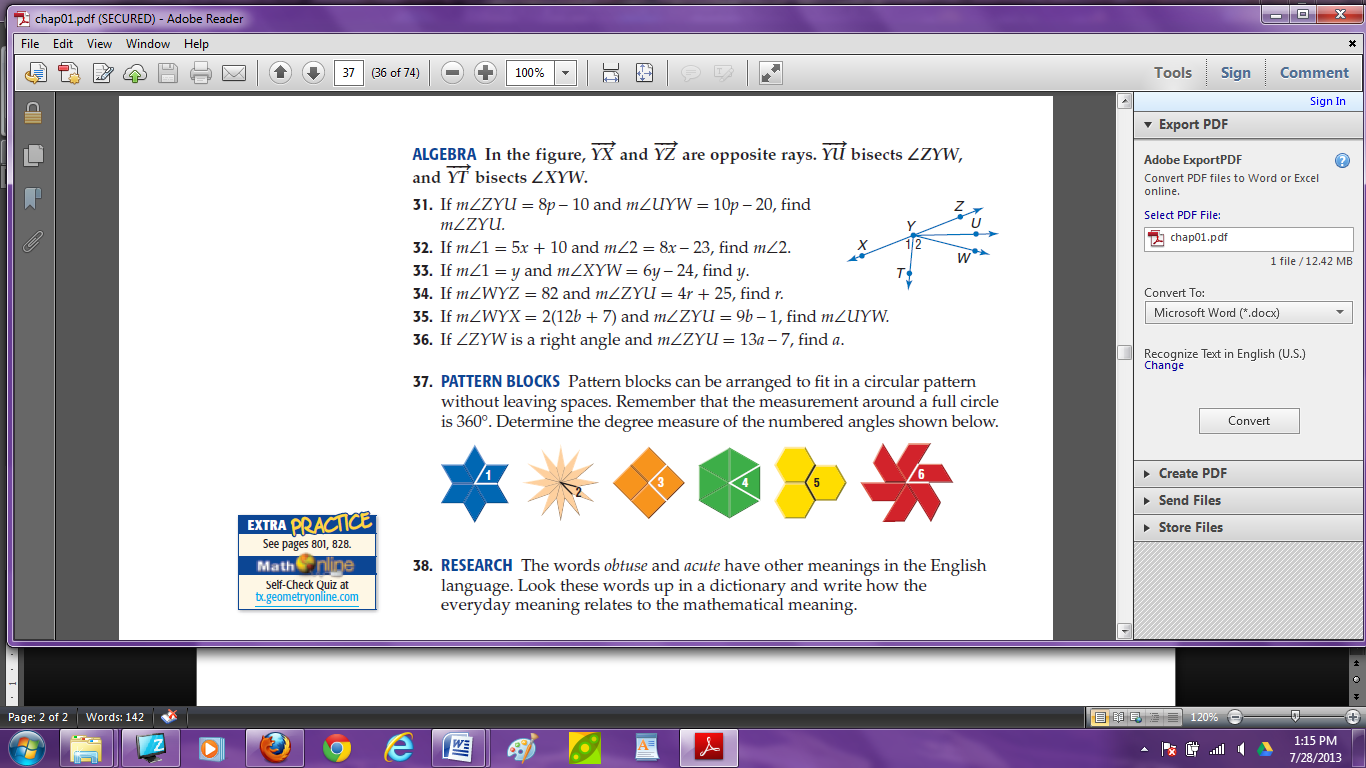
11. If m∠WYX = 2(12*b* + 7) and m∠ZYU = 9*b* - 1, find m∠UYW

12. If m∠ZYW is a right angle and m∠ZYU = 13*a* -7, find *a*



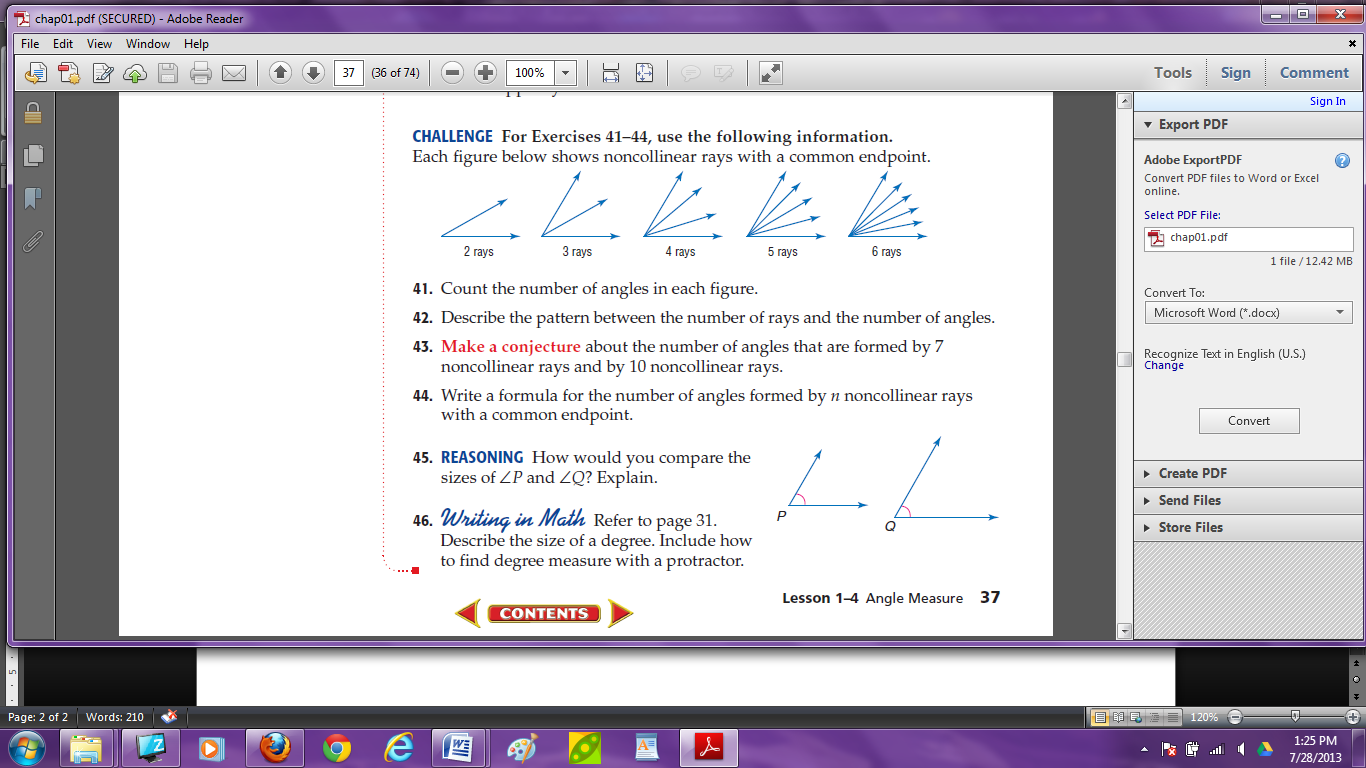
13. Pattern Blocks can be arranged to fit in a circular pattern without leaving spaces. The measure around a full circle is 360˚. Determine the degree measure of the numbered angles shown below.

m∠1 = \_\_\_\_\_\_ m∠2 = \_\_\_\_\_\_ m∠3 = \_\_\_\_\_\_ m∠4 = \_\_\_\_\_\_ m∠5 = \_\_\_\_\_\_ m∠6 = \_\_\_\_\_\_



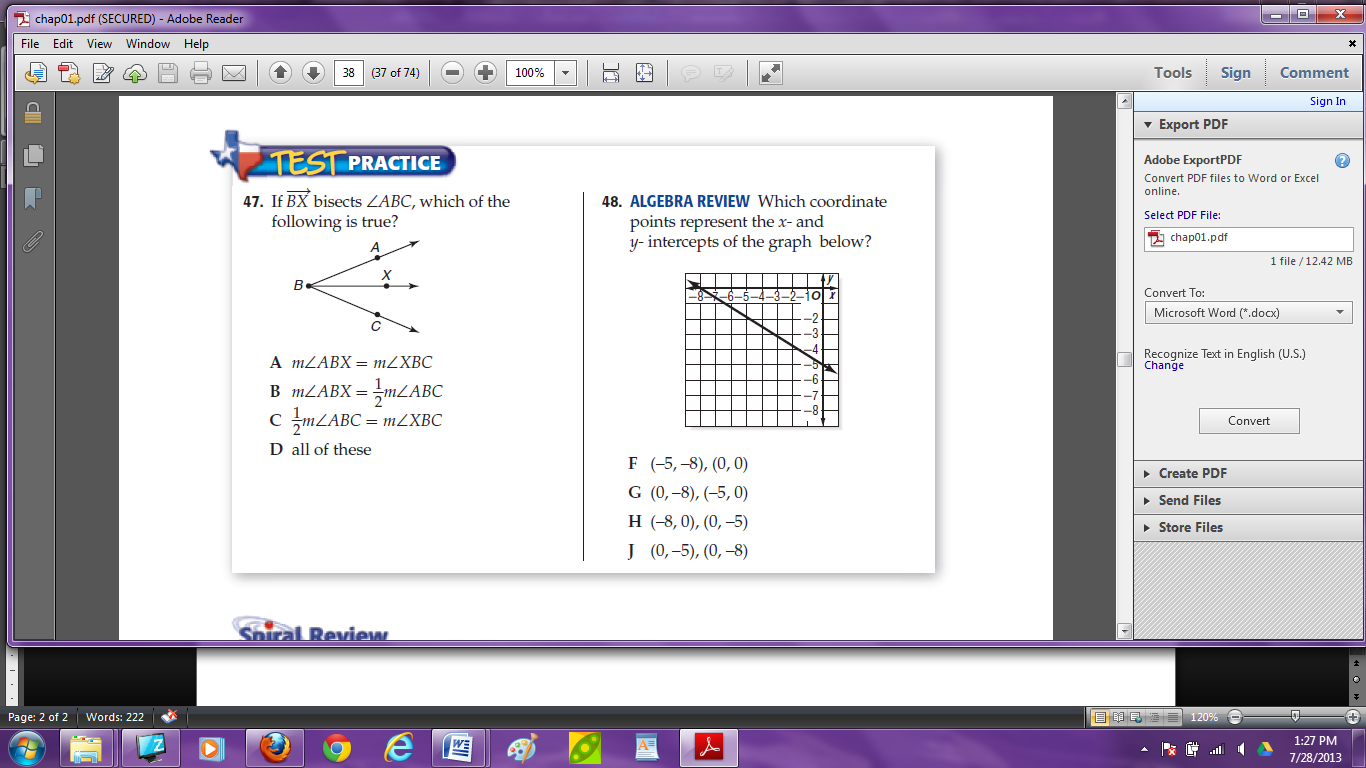
14. Draw and label a figure to show PR that bisects ∠SPQ and PT that bisects ∠SPR

15. Compare the sizes of ∠P and ∠Q. Explain your reasoning.



16. If BX bisects ∠ABC, which of the following statements are true?

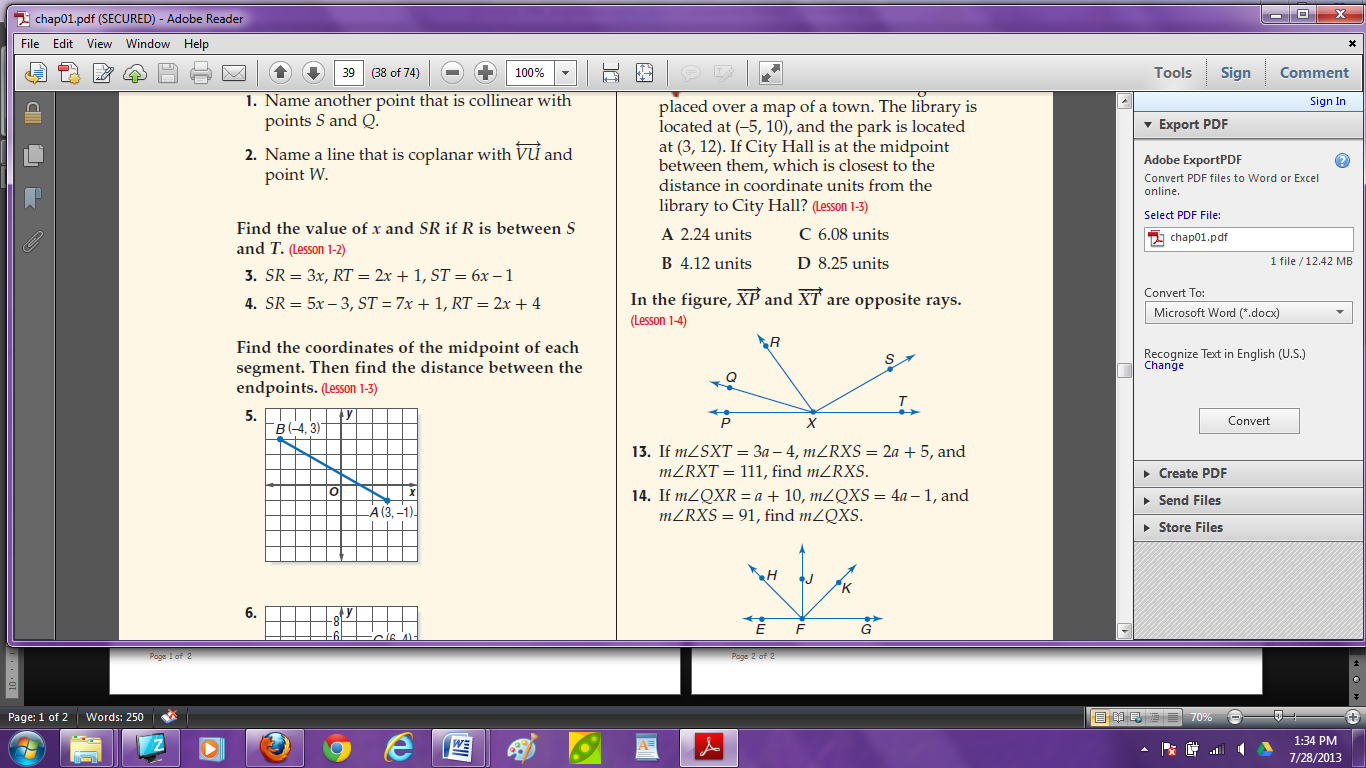
1. m∠ABX = m∠XBC True/False



1. m∠ABX = ½ m∠ABC True/False
2. ½ m∠ABC = m∠XBC True/False

Use the figure on the right to answer #17-18. XP and XT are opposite rays. Show all work.

17. If m∠SXT = 3*a* – 4, m∠RXS = 2*a* + 5, and m∠RXT = 111, find m∠RXS



m∠RXS = \_\_\_\_\_\_

18. If m∠QXR = *a* + 10, m∠QXS = 4*a* – 1, and m∠RXS = 91, find m∠QXS.

m∠QXS = \_\_\_\_\_\_

