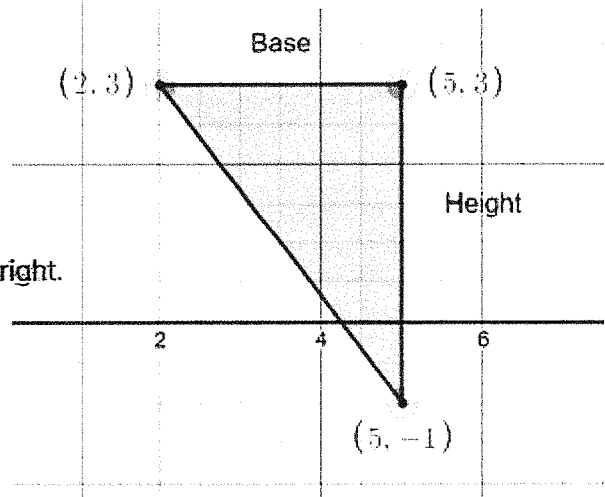


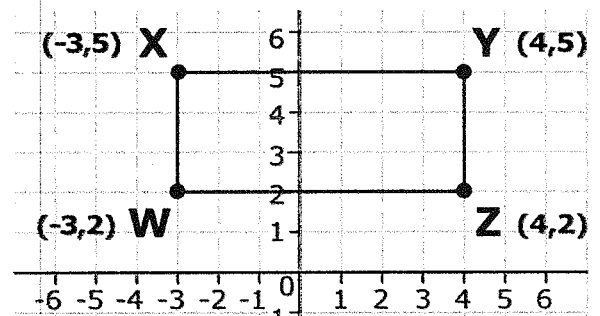
Unit 2 Study Guide

- 1) Two lines are perpendicular. The slope of the first line is $(3/7)$. What is the slope of the second line?
- 2) Line a is parallel to line b . Line a contains the points $(2, 5)$ and $(7, 8)$. Line b contains the points $(4, 7)$ and $(9, y)$. What is the value of y ?
- 3) Determine if the lines are parallel, perpendicular, or neither. Segment AB is $(-1, 2)$ and $(3, 5)$. Segment CD is $(4, 7)$ and $(8, 10)$.



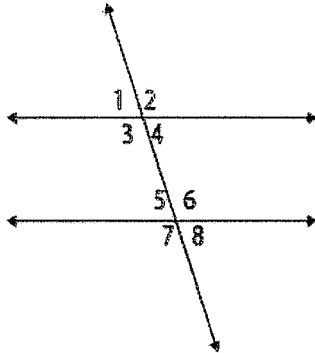
- 4) Find the perimeter and area of the triangle to the right.

- 5) Find the area and perimeter of the rectangle below.

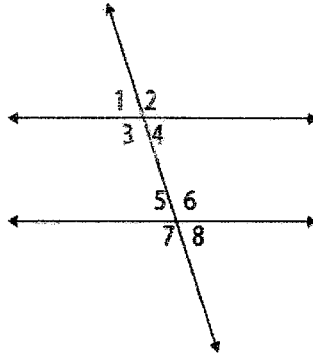


6) Draw an example of the following angles on the parallel lines cut by a transversal line

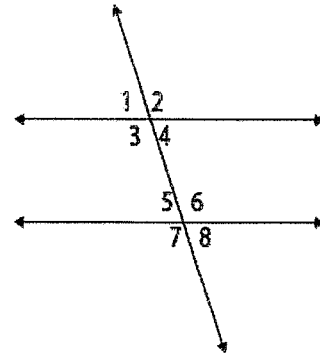
Alternate interior angles



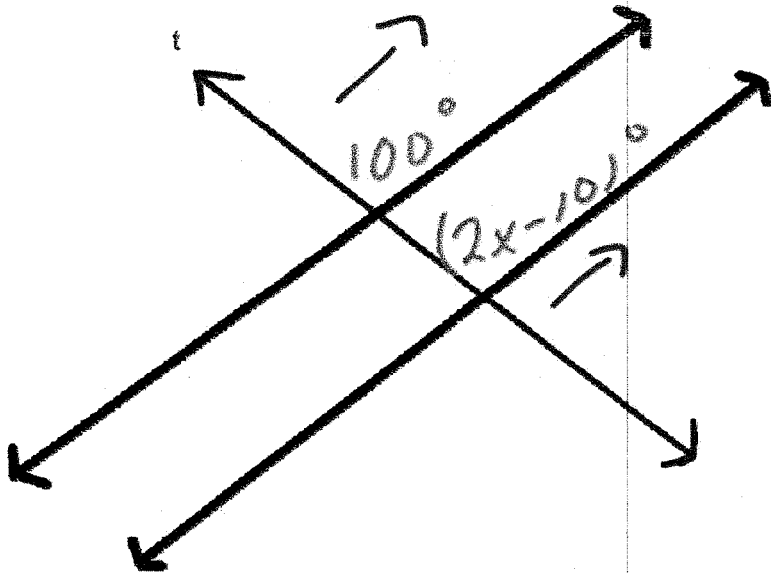
Corresponding angles



Consecutive angles



7) Find the value of x given that both black lines are parallel



8) Make sure you have defined your unit two vocabulary words as some definitions will be on the test.

Please study and good luck on the test.