Precalc Homework 8/15 – in your notes, due Friday 8/17

TB p 8-10 #7-19 odd, 45, 51, 53, 57, 58, 59, 66

Homework – Precalculus Textbook pages 8-10 #7-19 odd, 45, 51, 53, 57, 58, 59, 66

Plot the points in the Cartesian plane.

7. $(-4,2)$, $(-3,-6)$, $(0,5)$, $(1,-4)$

9. $(3,8)$, $(0.5,-1)$, $(5,-6)$, $(-2,2.5)$

Find the coordinate of the point.

11. the point is located three units to the left of the y-axis and four units above the x-axis.

13. The point is located five units below the x-axis and the coordinates of the point are equal.

Determine the quadrant(s) in which (x, y) is located so the condition(s) are satisfied.

15. $x > 0 \text{ and } y < 0$ 17. $x = -4 \text{ and } y > 0$ 19. $y < -5$

Show that the points form the vertices of the indicated polygon.

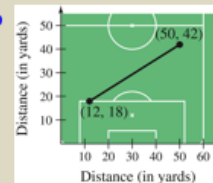45. *isosceles triangle*: $(1,-3)$, $(3,2)$, $(-2,4)$

Find the distance between the points and the midpoint of the line segment joining the points.

51. $(-1,2)$, $(5,4)$ 53. $\left(\frac{1}{2},1\right), \left(-\frac{5}{2},\frac{4}{3}\right)$

57. An airplane flies from Naples, Italy in a straight line to Rome, Italy, which is 120 kilometers north and 150 kilometers west of Naples. How far does the plane fly?
(Draw a sketch to help you)

58. A soccer player passes the ball from a point that is 18 yards from the endline and 12 yards from the sideline. The pass is received by a teammate who is 42 yards from the same endline and 50 yards from the same sideline. How long is the pass?

59. Use the midpoint formula to estimate the sales of Big Lots, Inc. in 2005 given the sales in 2003 and 2007.

Year	Sales (in millions)
2003	$4174
2007	$4656

66. Approximate the percent change in the price of milk from the price in 1996 to the highest price shown in the graph.