MATH 223
Selected Hints and Answers for Assignment 2
Chapter 2: 1, 4, 9, 10, 12, 13, 14

1: $\frac{(x+1)^2}{25} + \frac{(y-2)^2}{9} = 1$

4: $\frac{x^2}{92.96^2} + \frac{y^2}{92.95^2} = 1$

9: Hint: Show that the distance between x and $\frac{x+y}{2}$ equals the distance between y and $\frac{x+y}{2}$

10: Use the fact that the distance between two vectors is the magnitude of their difference.

12: The magnitude of the vector is $\sqrt{39}$

13: Complete the squares in x and in y.

14: Center is $(1, 2, 3)$