Practice Exercise For Lecture 13

Q1.   Convert the following equation into the standard form of cirlce and then identify the center and raidus:

$$x^2 + y^2 + 4x - 4y + 4 = 0$$

(Ans. Center: (-2, 2), radius: $2\sqrt{2}$)

Q2.   Convert the following equation into the standard form of cirlce and then identify the center and raidus:

$$x^2 + y^2 - 3y - 4 = 0$$

(Ans. Center: (0, 3/2), radius: 5/2)

Q3.   Write the equation of circle if center is at (-1, 2) and diameter is 8.

(Ans. $x^2 + y^2 + 2x - 4y - 11 = 0$)