الجامعة المصرية
للتعلم الإلكتروني الأهلية

**EELU**
THE EGYPTIAN E-LEARNING UNIVERSITY

| Assignment | Announcement | Due Date |
|:----------:|:------------:|:--------:|
| One | 12-11-2020 | 17-11-2020 |

## Question No.1  (2 degree)
**Find the equation of the circle which passes through the point (5, -2) and whose center is (-1, 5)**

## Question No.2  (2 degrees)
**Determine the radius and center of the following circle.**
$$9x^2 + 9y^2 - 6x - 36y - 107 = 0$$

## Question No.3  (2  degrees)
**Find x so that the distance between the points (-2, -3) and (-3, x) is equal to 5.**

## Question No.4  (2  degrees)
**Construct a table of at least 4 ordered pairs of points on the graph of the following function and use the ordered pairs from the table to sketch the graph of the function.**

$$f(x) = \begin{cases} 10 - 2x \,, if\, x < 2 \\ x^2 + 2 \,, if\, x \geq 2 \end{cases}$$

## Question No.5  (2  degrees)
**Find the domain of each of the following functions:-**

$$a \,) \, f(x) = \frac{9-2x}{x^2-4x+4}$$

$$b) \, f(x) = \frac{1}{\sqrt{x-2}}$$