MORE FUN PRACTICE! 😊
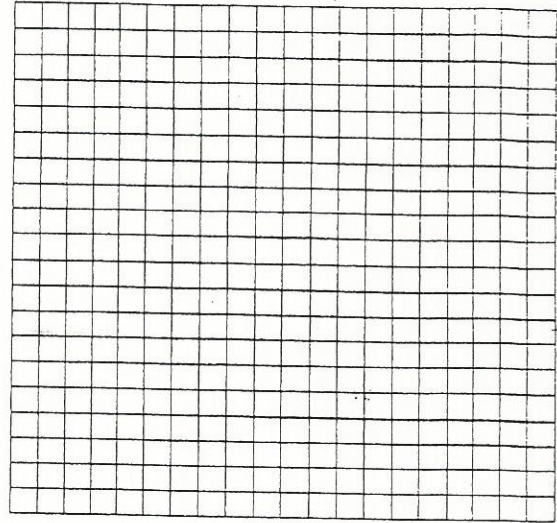
① Graph the equation below:

$$y = -\frac{1}{2}x^2 - 2x$$

Then determine the characteristics listed below and draw the axis of symmetry.

x	y

Coordinates of the vertex:_____

Coordinates of the y-intercept:_____

Coordinates of the point symmetric with the y-intercept:_____
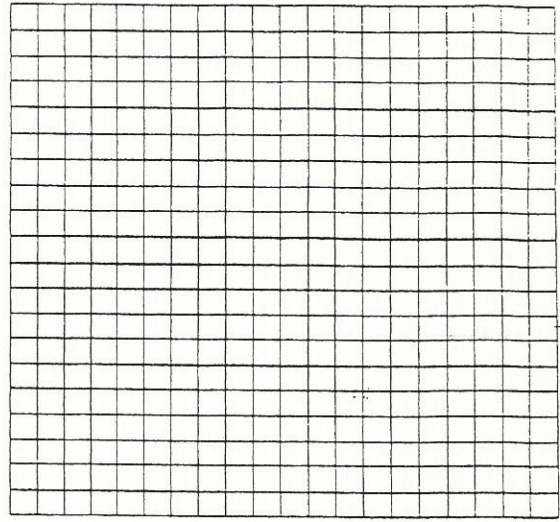
Coordinates of the zeros:_____

Equation of the axis of symmetry:_____

(2) Graph the equation below:

$$y = x^2 - 4x + 5$$

Then determine the characteristics listed below and draw the axis of symmetry.

x	y

Coordinates of the vertex:_____

Coordinates of the y-intercept:_____

Coordinates of the point symmetric with the y-intercept:_____
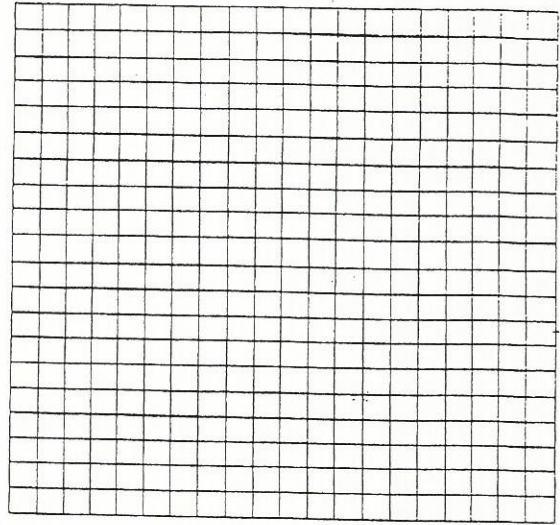
Coordinates of the zeros:_____

Equation of the axis of symmetry:_____

(3) Graph the equation below:

$$y = \frac{x^2}{4} + \frac{13}{4} + \frac{x}{2}$$

Then determine the characteristics listed below and draw the axis of symmetry.

x	y

Coordinates of the vertex:_____

Coordinates of the y-intercept:_____

Coordinates of the point symmetric with the y-intercept:_____
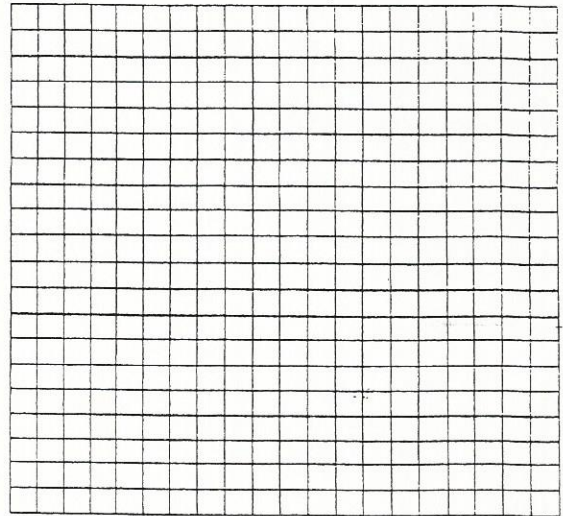
Coordinates of the zeros:_____

Equation of the axis of symmetry:_____

(4) Graph the equation below:

$$y = x^2 + 5 - 6x$$

Then determine the characteristics listed below and draw the axis of symmetry.

x	y

Coordinates of the vertex:_____

Coordinates of the y-intercept:_____

Coordinates of the point symmetric with the y-intercept:_____

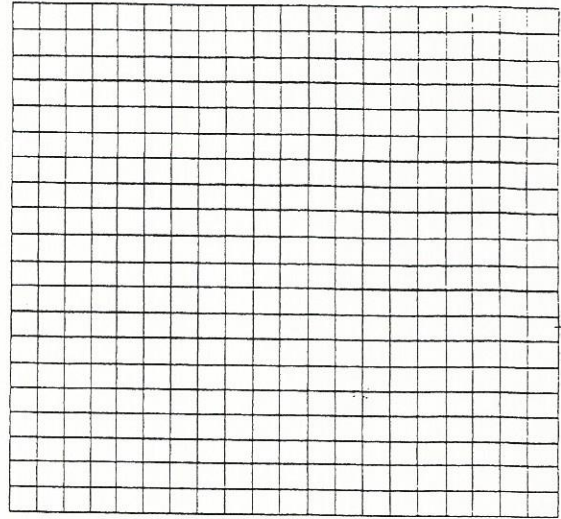Coordinates of the zeros:_____

Equation of the axis of symmetry:_____

(5) Graph the equation below:

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

Then determine the characteristics listed below and draw the axis of symmetry.

x	y

Coordinates of the vertex:_____

Coordinates of the y-intercept:_____

Coordinates of the point symmetric with the y-intercept:_____
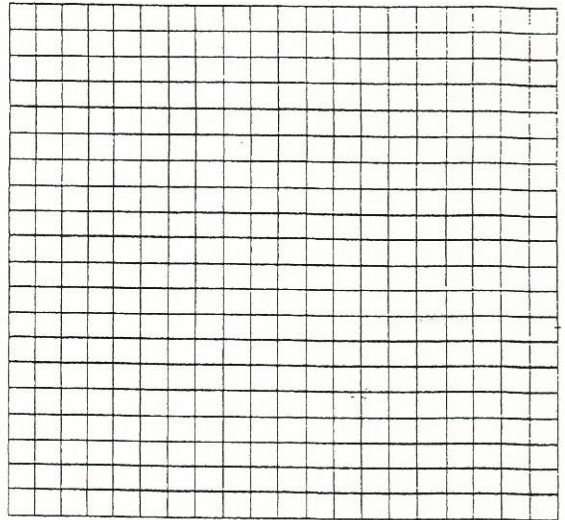
Coordinates of the zeros:_____

Equation of the axis of symmetry:_____

⑥ Graph the equation below:

$$y = 2x^2 - 4x + 1$$

Then determine the characteristics listed below and draw the axis of symmetry.

x	y

Coordinates of the vertex:_____

Coordinates of the y-intercept:_____

Coordinates of the point symmetric with the y-intercept:_____

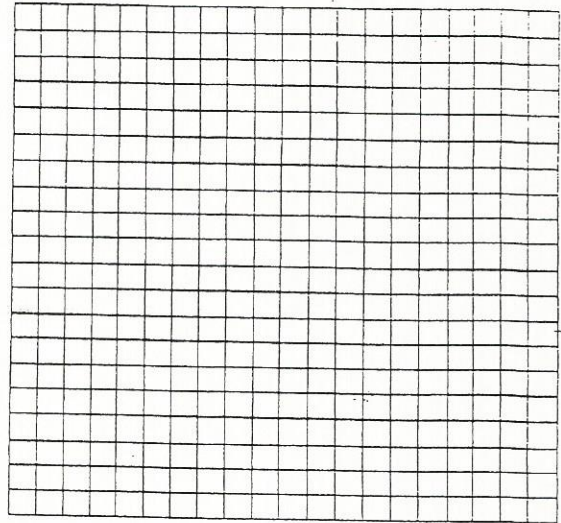Coordinates of the zeros:_____

Equation of the axis of symmetry:_____

⑦ Graph the equation below:

$$y = -3x^2 - 10 + 12x$$

Then determine the characteristics listed below and draw the axis of symmetry.

x	y

Coordinates of the vertex:_____

Coordinates of the y-intercept:_____

Coordinates of the point symmetric with the y-intercept:_____
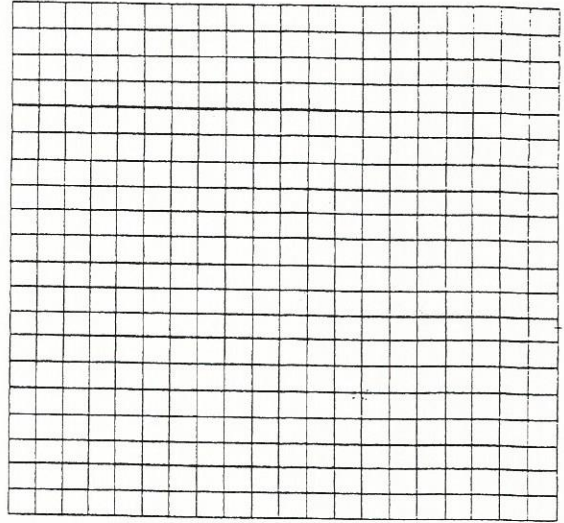
Coordinates of the zeros:_____

Equation of the axis of symmetry:_____

(8) Graph the equation below:

$$y = \frac{1}{3}x^2$$

Then determine the characteristics listed below and draw the axis of symmetry.

x	y

Coordinates of the vertex:_____

Coordinates of the y-intercept:_____

Coordinates of the point symmetric with the y-intercept:_____

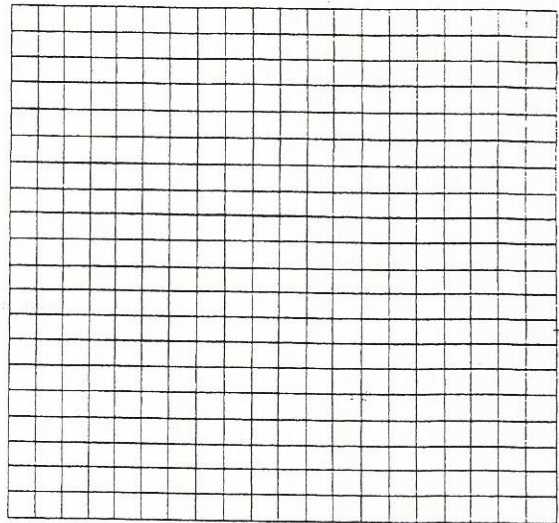Coordinates of the zeros:_____

Equation of the axis of symmetry:_____

(9) Graph the equation below:

$$y = 4 - x^2$$

Then determine the characteristics listed below and draw the axis of symmetry.

x	y

Coordinates of the vertex:_____

Coordinates of the y-intercept:_____

Coordinates of the point symmetric with the y-intercept:_____
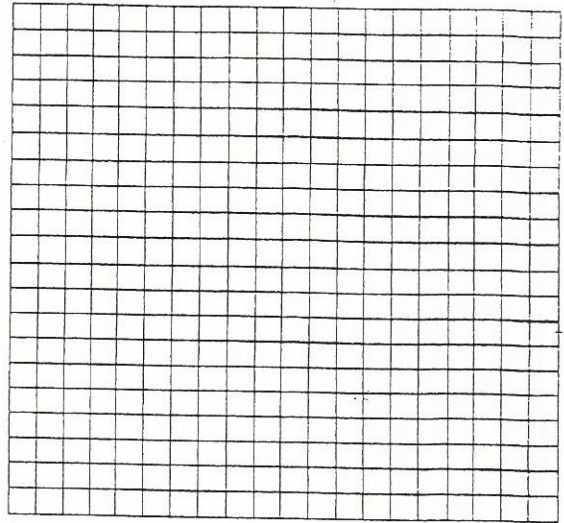
Coordinates of the zeros:_____

Equation of the axis of symmetry:_____

(10) Graph the equation below:

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

Then determine the characteristics listed below and draw the axis of symmetry.

X	y

Coordinates of the vertex:_____

Coordinates of the y-intercept:_____

Coordinates of the point symmetric with the y-intercept:_____
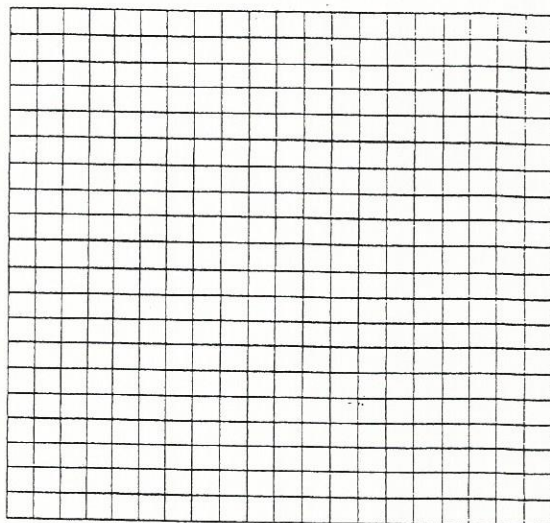
Coordinates of the zeros:_____

Equation of the axis of symmetry:_____

(11) Graph the equation below:

$$y = -4x^2$$

Then determine the characteristics listed below and draw the axis of symmetry.

x	y

Coordinates of the vertex:_____

Coordinates of the *y*-intercept:_____

Coordinates of the point symmetric with the *y*-intercept:_____

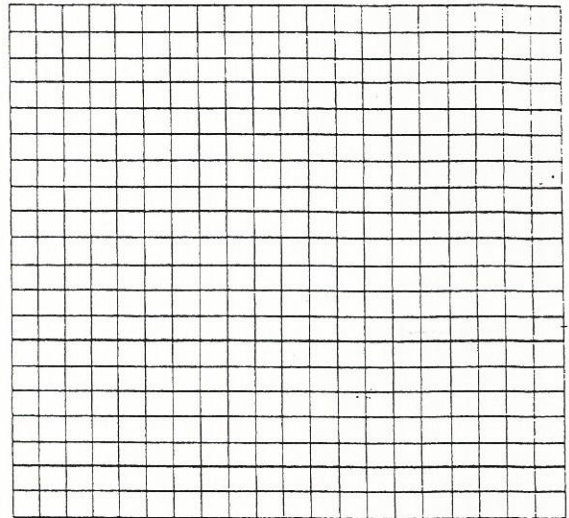Coordinates of the zeros:_____

Equation of the axis of symmetry:_____

(12) Graph the equation below:

$$y = -3x^2 + 2x + 1$$

Then determine the characteristics listed below and draw the axis of symmetry.

x	y

Coordinates of the vertex:_____

Coordinates of the y-intercept:_____

Coordinates of the point symmetric with the y-intercept:_____

Coordinates of the zeros:_____

Equation of the axis of symmetry:_____