SKETCHING QUADRATICS

Question 1

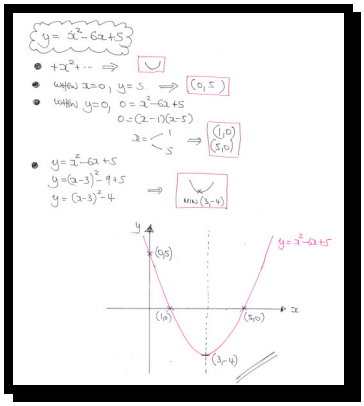
Sketch the graph of the curve with equation

$$y = x^2 - 6x + 5, \ x \in \mathbb{R}.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the minimum point of the curve.

graph



Question 2

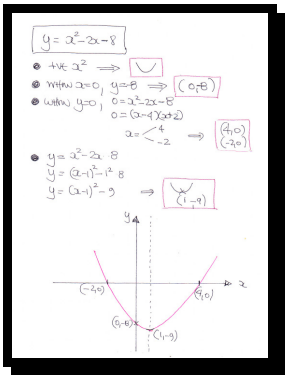
Sketch the graph of the curve with equation

$$y = x^2 - 2x - 8, \ x \in \mathbb{R}.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the minimum point of the curve.

graph



Question 3

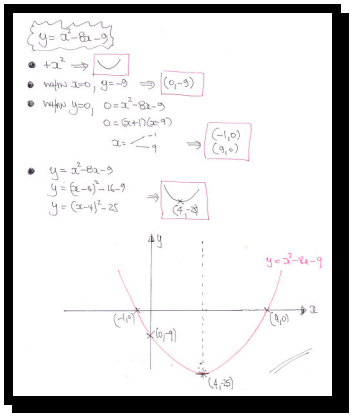
Sketch the graph of the curve with equation

$$y = x^2 - 8x - 9\,,\ x \in \mathbb{R}\,.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the minimum point of the curve.

graph



Question 4

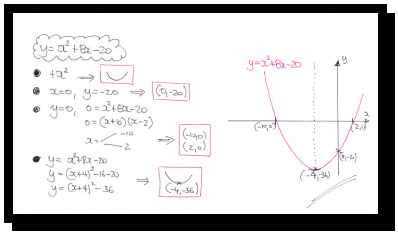
Sketch the graph of the curve with equation

$$y = x^2 + 8x - 20, \ x \in \mathbb{R}.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the minimum point of the curve.

graph



Question 5

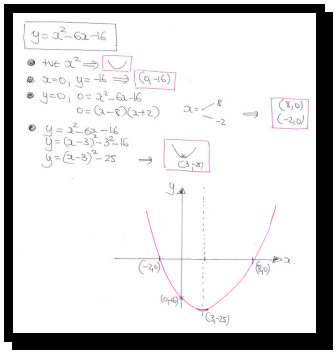
Sketch the graph of the curve with equation

$$y = x^2 - 6x - 16\,,\ x \in \mathbb{R}\,.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the minimum point of the curve.

graph



Question 6

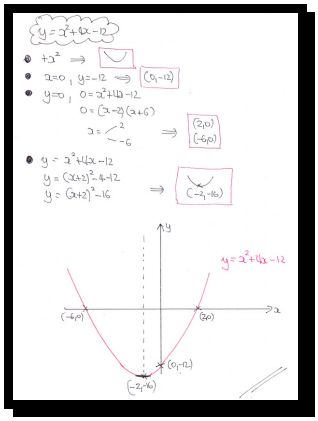
Sketch the graph of the curve with equation

$$y = x^2 + 4x - 12\,,\ x \in \mathbb{R}\,.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the minimum point of the curve.

graph



Question 7

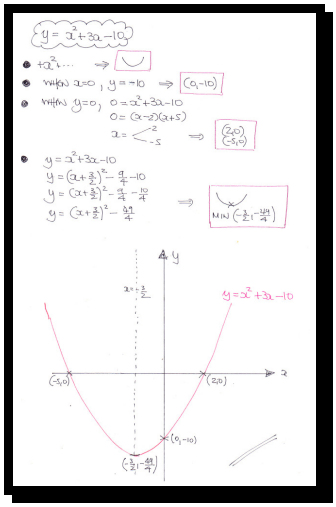
Sketch the graph of the curve with equation

$$y = x^2 + 3x - 10, \ x \in \mathbb{R}.$$

The sketch must include the coordinates of

- … all the points where the curve meets the coordinate axes.
- … the minimum point of the curve.

graph



Question 8

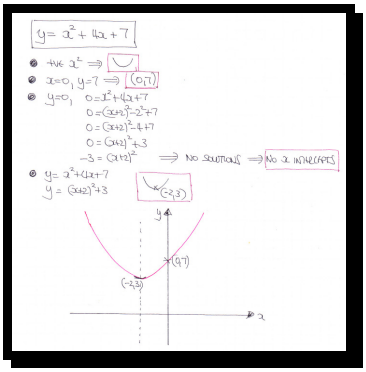
Sketch the graph of the curve with equation

$$y = x^2 + 4x + 7, \ x \in \mathbb{R}.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the minimum point of the curve.

graph



Question 9

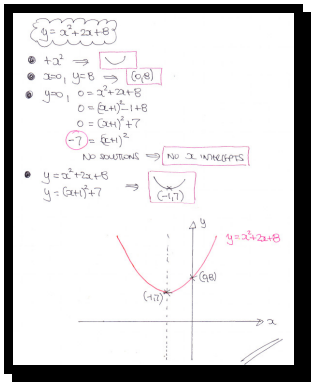
Sketch the graph of the curve with equation

$$y = x^2 + 2x + 8\,,\ x \in \mathbb{R}\,.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the minimum point of the curve.

graph



Question 10

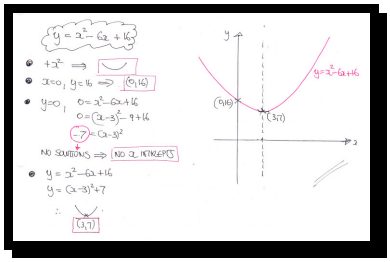
Sketch the graph of the curve with equation

$$y = x^2 - 6x + 16\,,\ x \in \mathbb{R}\,.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the minimum point of the curve.

graph



Question 11

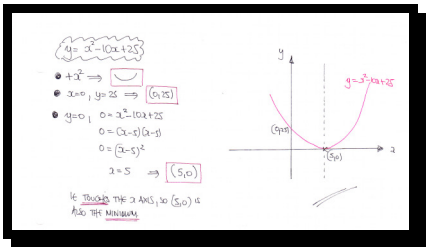
Sketch the graph of the curve with equation

$$y = x^2 - 10x + 25 , \ x \in \mathbb{R} .$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the minimum point of the curve.

graph



Question 12

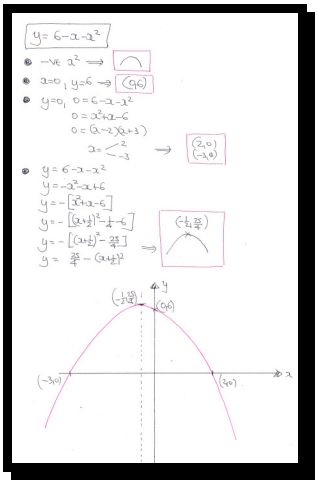
Sketch the graph of the curve with equation

$$y = 6 - x - x^2 , \ x \in \mathbb{R} .$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the maximum point of the curve.

graph



Question 13

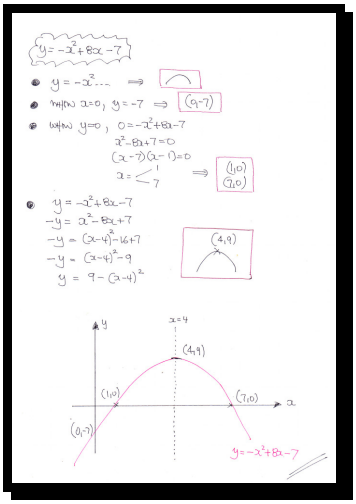
Sketch the graph of the curve with equation

$$y = -x^2 + 8x - 7, \ x \in \mathbb{R}.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the maximum point of the curve.

graph



Question 14

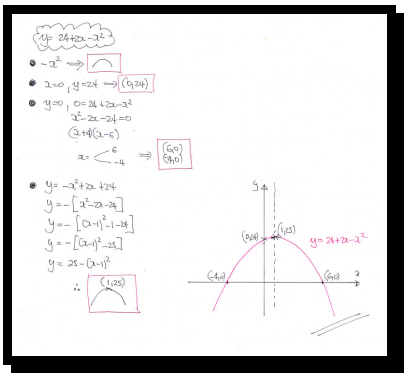
Sketch the graph of the curve with equation

$$y = 24 + 2x - x^2, \ x \in \mathbb{R}.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the maximum point of the curve.

graph



Question 15

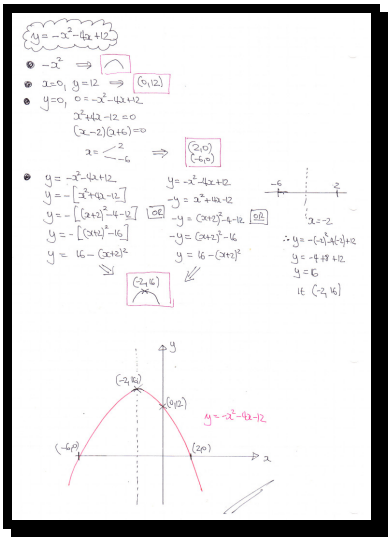
Sketch the graph of the curve with equation

$$y = -x^2 - 4x + 12\,,\ x \in \mathbb{R}\,.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the maximum point of the curve.

graph



Question 16

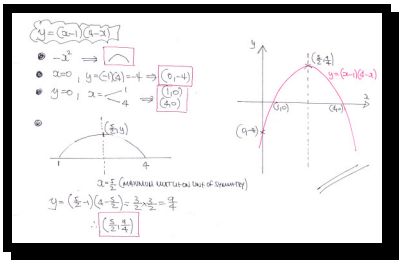
Sketch the graph of the curve with equation

$$y=(x-1)(4-x),\ x\in\mathbb{R}.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the maximum point of the curve.

graph



Question 17

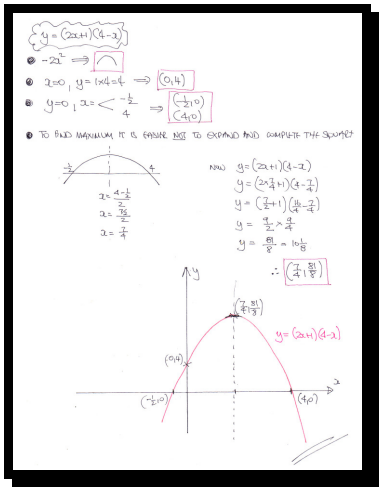
Sketch the graph of the curve with equation

$$y=(2x+1)(4-x),\ x\in\mathbb{R}.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the maximum point of the curve.

graph



Question 18

Sketch the graph of the curve with equation

$$y = 2x^2 + 7x - 15\,,\ x \in \mathbb{R}\,.$$

The sketch must include the coordinates of …

- … all the points where the curve meets the coordinate axes.
- … the maximum point of the curve.

graph

