# SKETCHING QUADRATICS 

Created by T. Madas

Question 1
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 2
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 3
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 4
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 5
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 6
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 7
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of

- ... all the points where the curve meets the coordinate axes.


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Question 8
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 9
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 10
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 11
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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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.


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Question 13
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 14
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 15
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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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.


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Question 17
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


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Question 18
Sketch the graph of the curve with equation

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

The sketch must include the coordinates of ...

- ... all the points where the curve meets the coordinate axes.


