

# Math 3B: Lecture 4

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# Global Maximums and minimums

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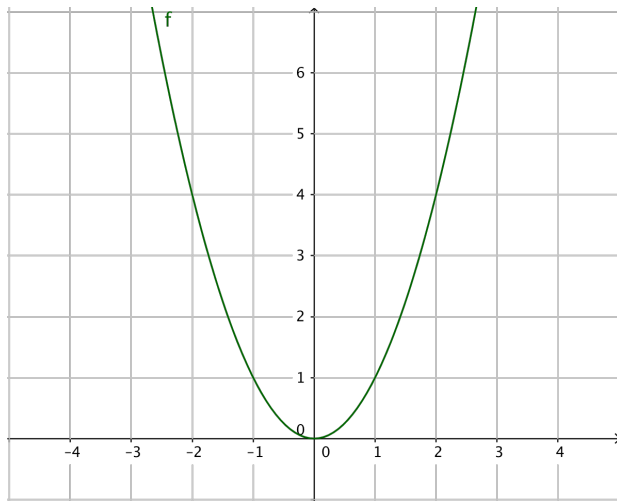
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## Example of a global minimum

$f : \mathbb{R} \rightarrow \mathbb{R}; x \mapsto x^2$  has a min at  $x = 0$





## Example of a global maximum

$f : (-\infty, 0] \rightarrow \mathbb{R}; f(x) = x^3$  has a max at  $x = 0$

