

The Secret of Finding Local Maximum and Minimum on TI 84 Graphing Calculator

Lesson 088 | Algebra II | Calculator verification of minima

<https://www.youtube.com/watch?v=HsESy9Q9Nfl>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

For $y=(x-3)^2+2$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

02

For $y=(x-2)^2+4$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

03

For $y=(x-2)^2+2$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

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04

For $y=(x-1)^2+9$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

05

For $y=(x--8)^2+6$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

06

For $y=(x-3)^2+4$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

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01

For $y=(x-3)^2+2$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

Vertex (3,2) is the minimum. Graph in a window around $x=3$; use a minimum feature with left/right bounds bracketing the vertex, or trace the vertex in Desmos. There is no global maximum.

02

For $y=(x-2)^2+4$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

Vertex (-2,4) is the minimum. Graph in a window around $x=-2$; use a minimum feature with left/right bounds bracketing the vertex, or trace the vertex in Desmos. There is no global maximum.

03

For $y=(x-2)^2+2$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

Vertex (-2,2) is the minimum. Graph in a window around $x=-2$; use a minimum feature with left/right bounds bracketing the vertex, or trace the vertex in Desmos. There is no global maximum.

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04

For $y=(x-1)^2+9$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

Vertex (1,9) is the minimum. Graph in a window around $x=1$; use a minimum feature with left/right bounds bracketing the vertex, or trace the vertex in Desmos. There is no global maximum.

05

For $y=(x--8)^2+6$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

Vertex (-8,6) is the minimum. Graph in a window around $x=-8$; use a minimum feature with left/right bounds bracketing the vertex, or trace the vertex in Desmos. There is no global maximum.

06

For $y=(x-3)^2+4$, predict the minimum, then describe how to confirm it on TI-84 or Desmos.

Vertex (3,4) is the minimum. Graph in a window around $x=3$; use a minimum feature with left/right bounds bracketing the vertex, or trace the vertex in Desmos. There is no global maximum.