

The Secret of finding x-intercepts, roots or zeros of a polynomial with TI-84, TI 84 plus or TI CE

Lesson 091 | Algebra II | Calculator verification of polynomial zeros

https://www.youtube.com/watch?v=jc8jCG_plek

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Find all x-intercepts of $f(x)=x^2 + 9\cdot x - 36$ algebraically; explain how to verify numerically on a graphing calculator.

02

Find all x-intercepts of $f(x)=x^2 - 10\cdot x - 39$ algebraically; explain how to verify numerically on a graphing calculator.

03

Find all x-intercepts of $f(x)=x^2 - 5\cdot x - 66$ algebraically; explain how to verify numerically on a graphing calculator.

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04

Find all x-intercepts of $f(x)=x^2 - 2 \cdot x - 8$ algebraically; explain how to verify numerically on a graphing calculator.

05

Find all x-intercepts of $f(x)=x^2 - x - 12$ algebraically; explain how to verify numerically on a graphing calculator.

06

Find all x-intercepts of $f(x)=x^2 - 5 \cdot x - 14$ algebraically; explain how to verify numerically on a graphing calculator.

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- 01** Find all x-intercepts of $f(x)=x^2 + 9\cdot x - 36$ algebraically; explain how to verify numerically on a graphing calculator.

Factor $(x-3)(x+12)$; intercepts $(3,0),(-12,0)$. Graph and run a zero/root search on an interval around each intercept; compare results to the exact roots.

- 02** Find all x-intercepts of $f(x)=x^2 - 10\cdot x - 39$ algebraically; explain how to verify numerically on a graphing calculator.

Factor $(x-13)(x+3)$; intercepts $(13,0),(-3,0)$. Graph and run a zero/root search on an interval around each intercept; compare results to the exact roots.

- 03** Find all x-intercepts of $f(x)=x^2 - 5\cdot x - 66$ algebraically; explain how to verify numerically on a graphing calculator.

Factor $(x-11)(x+6)$; intercepts $(11,0),(-6,0)$. Graph and run a zero/root search on an interval around each intercept; compare results to the exact roots.

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04

Find all x-intercepts of $f(x)=x^2 - 2 \cdot x - 8$ algebraically; explain how to verify numerically on a graphing calculator.

Factor $(x-4)(x+2)$; intercepts $(4,0),(-2,0)$. Graph and run a zero/root search on an interval around each intercept; compare results to the exact roots.

05

Find all x-intercepts of $f(x)=x^2 - x - 12$ algebraically; explain how to verify numerically on a graphing calculator.

Factor $(x-4)(x+3)$; intercepts $(4,0),(-3,0)$. Graph and run a zero/root search on an interval around each intercept; compare results to the exact roots.

06

Find all x-intercepts of $f(x)=x^2 - 5 \cdot x - 14$ algebraically; explain how to verify numerically on a graphing calculator.

Factor $(x-7)(x+2)$; intercepts $(7,0),(-2,0)$. Graph and run a zero/root search on an interval around each intercept; compare results to the exact roots.