Radicals Classic View

Objectives

- Identify when additional parentheses are needed for Classic view calculators
- Calculate square roots using
- Calculate 3rd roots using the MATH menu
- Calculate 4th or higher-index roots using the MATH menu

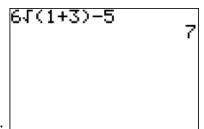
Identify when additional parentheses are needed

Caution: When calculating square roots, classic view calculators will often open the first parenthesis, but

you have to type the , because a group may be inside the radical.

Calculate square roots using

Example 1: Calculate $6\sqrt{1+3}-5$. Note: This becomes $6\sqrt{(1+3)}-5$

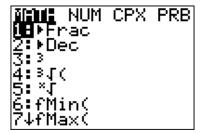


See this screen:

Note: The calculator used the order of operations correctly: radical (exponent), multiply, then subtract!

Calculate 3rd roots using the MATH menu

To calculate 3rd roots, use which opens a menu with four sub-menus: MATH, NUM, CPX, and PRB. The highlighted MATH menu is active.



Calculate 4th or higher-index roots using the MATH menu

To calculate higher-order roots, use the MATH menu again, but select option 5.

Caution: Option 5 uses "x" to show the index of the root. Type this number <u>before pressing</u>
This abbreviation for the index does not mean multiply!

Also note: Classic view does not open parentheses, so we open and close them.

Example 3: Calculate $\sqrt[6]{4^2+6\cdot8}$ Press these buttons:

6 math 5 (4 7 π H L3 θ) L entry solve enter

See this screen:

Try It!

Calculate.

1)
$$\sqrt{25-16}$$

2)
$$\sqrt{25} - \sqrt{16}$$

3)
$$\sqrt[3]{125} + \sqrt[3]{-1}$$

4)
$$\sqrt[5]{32}$$

5)
$$\sqrt[4]{5^3 + 5(10^2)}$$

Answers

3)

