

Radical Expressions with an Index

Nemeth symbols and concepts addressed:

- Radical expression
- Index-of-radical indicator
- Index
- Radical symbol ($\sqrt{\quad}$)
- Radicand
- Termination indicator
- Square root
- Superscripts or exponents
- Baseline indicator

Prerequisites:

The following Nemeth symbols and concepts will be addressed in this lesson, but they will not be thoroughly explained, so the student should be already skilled in these areas prior to starting this lesson:

- Fractions
- Decimals
- Negative numbers
- Operation signs

Objectives:

The student will be able to:

- 1) Write radical expressions with an index other than 2 using the correct Nemeth symbols
- 2) Define the terms: radical expression, radical symbol, index, radicand, and square root
- 3) Read radical expressions with an index other than 2 using the correct Nemeth symbols

Teaching tips:

- Before opening any BRF files in Duxbury, go into the Global menu. Select "Formatted Braille Importer" and then check the box for "Read formatted braille without interpretation" at the top of the window. This will ensure that nothing is changed when opening the BRF files.
- In addition to the embedded activities within the focused lesson, there is one follow-up activity.

- When reading long problems to students, be sure to pause frequently to allow the student to finish braille each section of a problem before moving on to the next section. At a minimum, pause after each end root.
- The C braille document may be used to supplement the print copy of the lesson since it contains all of the examples and equations in braille. For example, the general properties for a radical expression with an index is included in the C braille document.
- The answers for the follow-up activity are available in SimBraille and braille. Please note that these are not formatted in cell 1 with run-overs in cell 3 since the word "Answer" is included.
- If needed, remind the student to check his/her work during writing activities.
- You may want to have the student practice reading radical expressions with an index other than 2 as well. This can be done by using the answer key.