

The screenshot shows the Excel formula bar with the formula $=A1^{(1/2)}$ entered. The spreadsheet grid shows cell A1 containing the value 16, and cell B1 is currently selected and empty, ready for the result of the formula.

4. If a number is negative, the SQRT function returns the #NUM! error.

The screenshot shows the Excel formula bar with the formula `=SQRT(A1)` entered in cell B1. The formula bar also displays the function name `SQRT` and the argument `A1`. The spreadsheet shows the result of the formula, which is `#NUM!`, indicating an error. The error message is displayed in a yellow triangle icon next to the cell B1.

5. You can use the **ABS function** to remove the minus sign (-) from a negative number.

The screenshot shows the Excel formula bar with the formula `=SQRT(ABS(A1))` entered. The formula is applied to cell B1, which displays the result 4. The spreadsheet shows column A with values -16 and 2, and column B with the result 4 for row 1.

Excel has no built-in function to calculate the nth root of a number. To calculate the nth root of a number, simply raise that number to the power of $1/n$.

6. For example, $5 * 5 * 5$ or 5^3 is 5 raised to the third power.

The screenshot shows the Excel formula bar with the formula $=A1^3$ entered in cell B1. The spreadsheet grid shows the value 5 in cell A1 and the calculated result 125 in cell B1.

7. The cube root of 125 is 5.

Figure 1.10: The formula bar in Excel

8. For example, $2 * 2 * 2 * 2 * 2 * 2$ or 2^6 is 2 raised to the sixth power.

The screenshot shows the Excel formula bar with the formula $=A1^6$ entered in cell B1. The spreadsheet grid shows the value 2 in cell A1 and the calculated result 64 in cell B1.

9. The sixth root of 64 is 2.

Figure 1.10: The formula bar and the spreadsheet grid.

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