

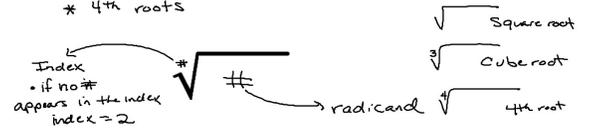
DO NOW

List the first 13 perfect squares.

Q 1 4 9 16
25 36 49 64
81 100 121 144
169 196 225

Radicals and the Calculator

radical - Square roots
* Cube roots
* 4th roots



inverse operations -

addition and subtraction
multiplication and division
Squaring and square root

square roots and signs:

principal root - positive root

$$\begin{aligned} +\sqrt{4} &= 2 & \pm\sqrt{4} &= \pm 2 \\ -\sqrt{4} &= -2 & \sqrt{4} &= 2 \end{aligned}$$

Using your calculator:

Square root $\rightarrow \sqrt{\quad}$ $\sqrt{676} = 26$
[ctrl] [x²] Radicand [Enter] $\sqrt[3]{27} = 3$
Cube root or 4th root
[ctrl] [∩] Index [→] Radicand [Enter] $\sqrt[4]{16} = 2$

$$\begin{array}{ccc} (\sqrt{9})^2 & (\sqrt{16})^2 & (\sqrt{7})^2 \\ 9 & 16 & 7 \\ (\sqrt{17})^2 & \sqrt{(37)^2} & \sqrt{(210)^2} \\ 17 & 37 & 210 \end{array}$$

HOMEWORK

Worksheet - HW Radicals
and the Calculator