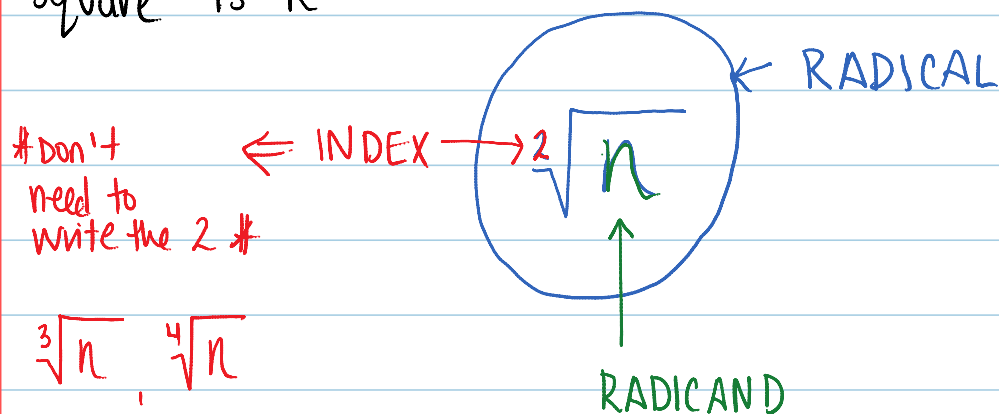


Chapter #4 Roots & Powers

November-04-13
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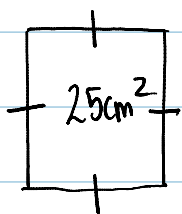
3.2 Perfect Squares, Cubes and their Roots

The **square root** of a number, \sqrt{n} , is a positive # whose square is n



Any whole # that is the area of a square with a whole # side length is a **perfect square**.

Ex. #1

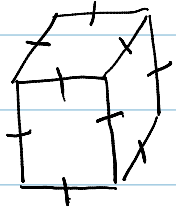


$$\sqrt{25} = 5\text{cm} \quad \left[\Rightarrow 5^2 = 5 \times 5 = 25 \right]$$

The **cube root** of a number $\sqrt[3]{n}$ is a # whose cube is n

Ex. #2

Ex. #2



$$\text{Volume} = 216 \text{ cm}^3$$

Find the edge length.

$$\sqrt[3]{216} = 6 \Rightarrow 6^3 = 6 \times 6 \times 6 = 216$$

Yes! it is a perfect cube

pg. 146 # 4, 5, 7, 8, 10
pg. 206 # 2

pg. 149 # 6-10