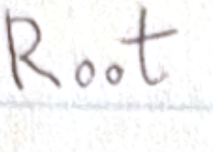
Cube Root of x

Session 33

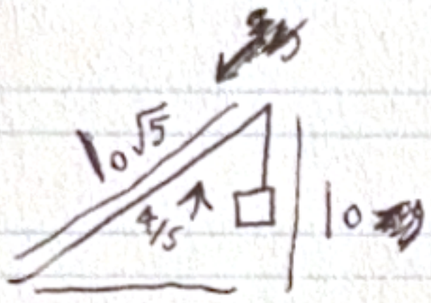
$$X_1 = x_0 - \frac{x_0}{3} = \frac{2}{3} x_0 \Rightarrow X_n = \frac{2^n}{3^n} x_0$$

3) 

$d^2 = (15+x)^2 + (10+x)^2$

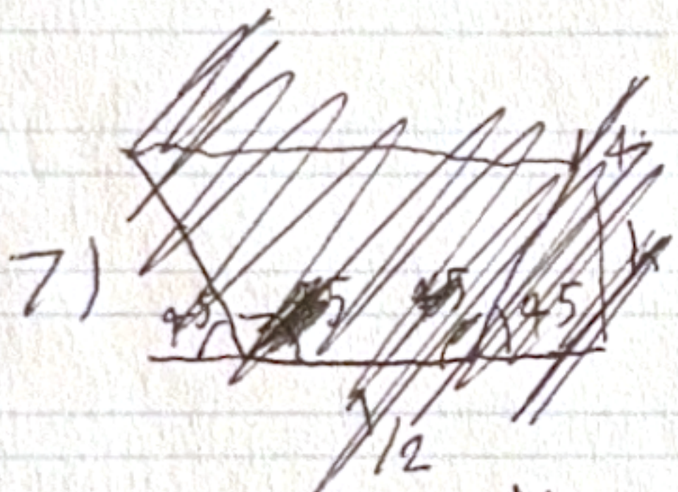
$2dd' = 2(15+x)x' + 2(10+x)x$

$\Rightarrow d = 150/\sqrt{13}$

5) 

$x^2 + 10^2 = z^2 \quad z' = 4$

$2xx' + 0 = 2zz' \Rightarrow x' = 2\sqrt{5}$

7) 

$V = 4(h^2 + h/2)$

$V' = 1 \Rightarrow h' = 1/6$

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