

Calculator Tricks

1. Power (Integer)

$$\rightarrow (5.32)^9 = 5.32 \times 5.32 \times 5.32 \times 5.32 \times 5.32 \times 5.32 \times 5.32 \times 5.32 \times 5.32$$

⇓

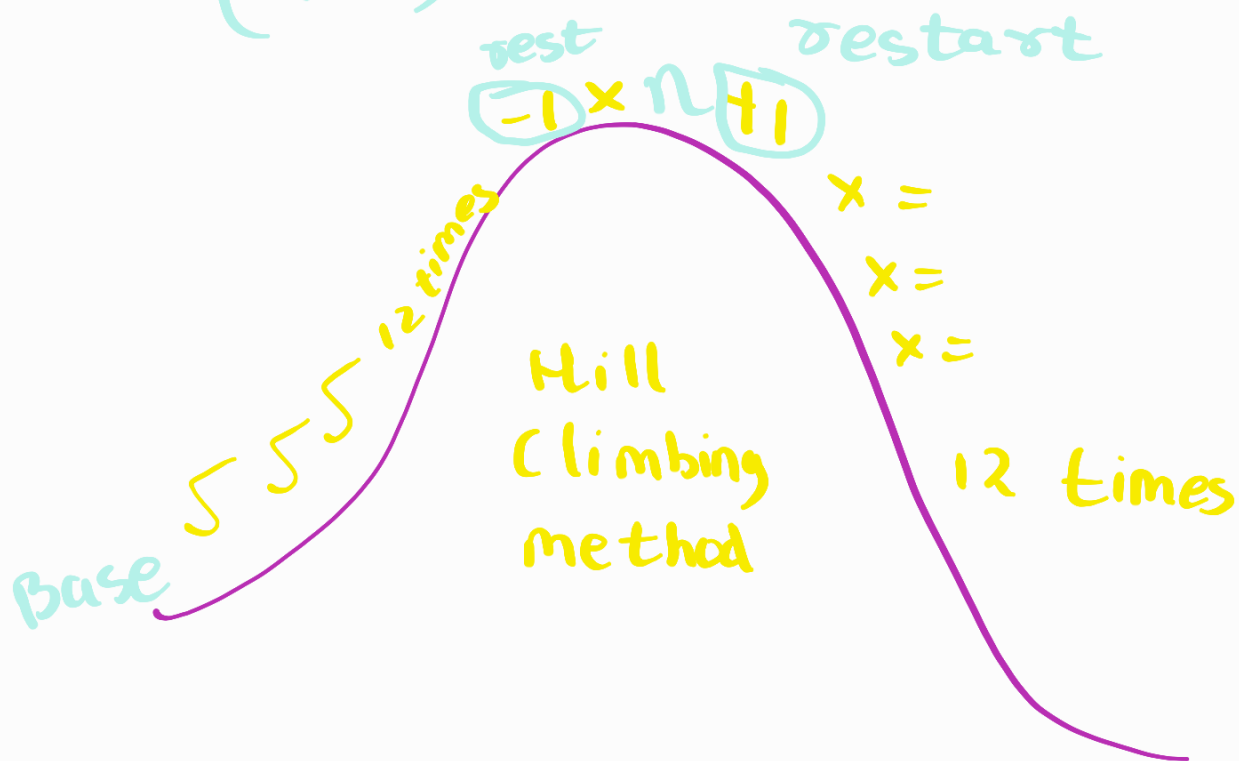
Trick : $5.32 \times \overset{2}{=} \overset{3}{=} \overset{4}{=} \overset{5}{=} \overset{6}{=} \overset{7}{=} \overset{8}{=} \overset{9}{=}$

↓ ↓
square cube

$$\Rightarrow \underline{\underline{3413537.597}}$$

2. Power (non integer)

$$\Rightarrow (7.9)^{5.3}$$



$$\therefore 7.9 \checkmark \checkmark \dots 12 \text{ times } -1 \times 5.3 + 1$$

$x = 12 \text{ times}$

$$\Rightarrow \underline{\underline{56528.8892}}$$

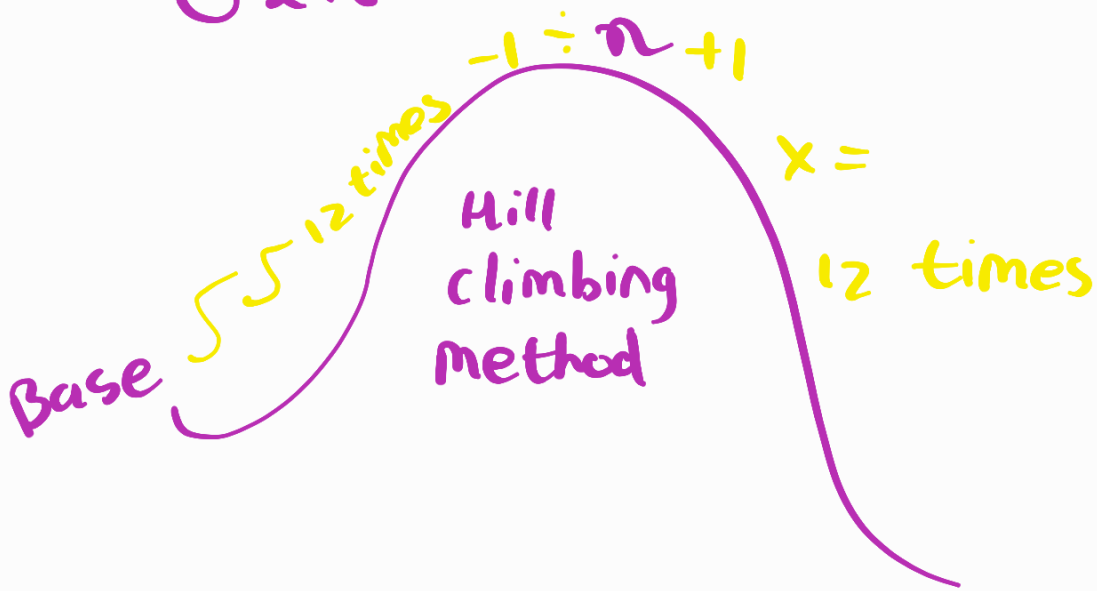
3.

a. \sqrt{n}

$$\sqrt{64} = 64^{\frac{1}{2}} = \underline{\underline{8}}$$

b. $\sqrt[4]{16} = (16)^{\frac{1}{4}} = 16^{\frac{1}{2} \cdot \frac{1}{2}} = \left(\sqrt{16} \right)^{\frac{1}{2}} = \sqrt{4} = \underline{\underline{2}}$

c. $\sqrt[3]{216}$



$$216^{\frac{1}{3}} = 216^{\frac{1}{3} \cdot \frac{1}{4} \cdot 4} = 216^{\frac{1}{12} \cdot 4} = 216^{\frac{1}{3}} = \sqrt[3]{216} = \sqrt[3]{6 \cdot 6 \cdot 6} = 6$$

$$\Rightarrow 6.004 \Rightarrow \underline{\underline{6}}$$

4. Reciprocal

Reciprocal of a is $\frac{1}{a}$; and of

$$\frac{1}{a} \rightarrow a$$

Calculator Trick : $\div =$
For Reciprocal

Ex.

$$\frac{3000}{(2.3)^7}$$

$$= 3000 \times \frac{1}{(2.3)^7}$$

$$= 2.3 \times = = = = = \div = \times 3000$$

$$\Rightarrow \underline{\underline{\$8110}}$$

S. Memory Button

X	P	P(x)
53	47	2491
21	23	483
30	50	1500
100	250	25000
		<hr/>
		29474
		<hr/>

$$53 \times 47 \text{ Mt} \quad 21 \times 23 \text{ Mt} \quad 30 \times 50 \text{ Mt}$$
$$100 \times 250 \text{ Mt} \quad \text{MRC}$$

6. GT Button
↓
Grand Total

P	X	P(X)
32.5	15	487.5
23.2	100	2320
29.1	12	229.2
10	35.2	352
		<hr/>
		3388.7
		<hr/>

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Exercise

1. b
2. c.
3. a.
4. b.
5. c.
6. b.
7. a.

7. Trick for amount as per CI

$$P + i\% + i\% + i\% \dots n \text{ times}$$

Note:- Suitable when value of n is small.

8.

PVAF \div

$$\frac{1}{i} \left(1 - \frac{1}{(1+i)^n} \right)$$



$$1+i \div = = \dots n \text{ times}$$

GT