

CALCULATOR TRICKS

BY : SHIVANI SHARMA

How to write Negative of a number on Calculator

To Write - 5 on Calculator

Step 1: Press 5

Step 2: Press $\pm/$ one time



Que. What is the mean deviation about mean of the following numbers ? 11 , 8 , 10 , 10 , 12 , 9

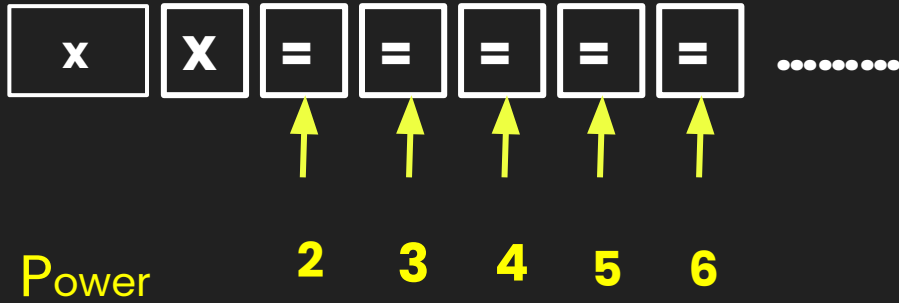
- (a) 2
- (b) 1
- (c) 1.5
- (d) 1.8

MEAN DEVIATION

$$MD_A = \frac{1}{n} \sum |x_i - A|$$

Ans : b

SIMPLE POWER (Integer Power x^n)



EXAMPLE:

- 3^4
- 4^5
- 6^4

SQUARE ROOT

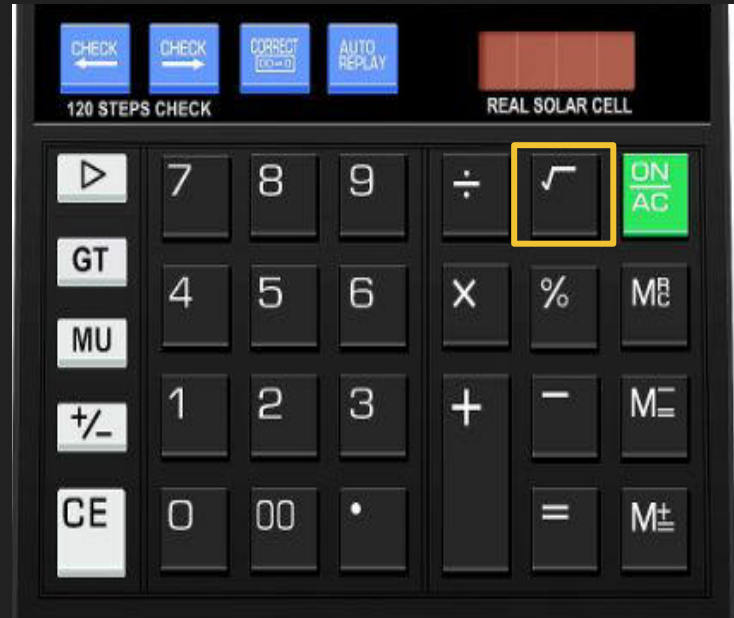
How to find \sqrt{x}

- Write x then press $\sqrt{\quad}$
- Example: $\sqrt{81}$



How to find $^4\sqrt{x}$

- Write x then press
- Example $^4\sqrt{81}$



To find nth root $(x^{1/n})$

STEPS

- Write x
- Press $\sqrt{\quad}$ 12 times
- Subtract 1
- Divide by n
- Add 1
- Press $\mathbf{X=}$ 12 times

EXAMPLE :

- $27^{1/3}$
- $32^{1/5}$

Non - Integer POWER (x^n)

STEPS

- Write base
- Press 12 times
- Subtract 1
- Multiply by power
- Add 1
- Press 12 times

Example :

$$21^{1.2}$$



USE OF M_{\pm} AND M_{\pm}

$$(4 \times 2) + (2 \times 5) + (3 \times 6)$$

4 X 2 M_{\pm} **2 X 5** M_{\pm} **3 X 6** M_{\pm} M_{\pm}



USE OF M_{\pm} AND M_{\pm}

$$(3 \times 7) + (2 \times 6) - (3 \times 8)$$

3×7 M_{\pm} 2×6 M_{\pm} 3×8 M_{\pm} M_{\pm}

$(6 \times 5) + (5 \times 3) - (2 \times 8) =$

EXERCISE (A)

Que.9 Pick up the correct value x for which

$$\frac{x}{0.5} - \frac{1}{0.05} + \frac{x}{0.005} - \frac{1}{0.0005} = 0$$

- a. $x = 0$
- b. $x = 1$
- c. $x = 10$
- d. None of these

ANS : C

EXERCISE (C)

Que.6 The pair satisfying the equations: $x+5y = 36$, $\frac{x+y}{x-y} = \frac{5}{3}$ is given by

- a. (16, 4)
- b. (4, 16)
- c. (4, 8)
- d. None of these

ANS : A

Reciprocal of a Number

Find reciprocal of x

x

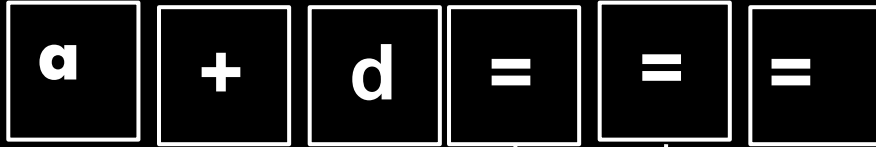
÷

=

EXAMPLE :

$$\frac{21870}{(0.9)^3}$$

To find nth term of an AP



2nd term, 3rd term, 4th term,so on

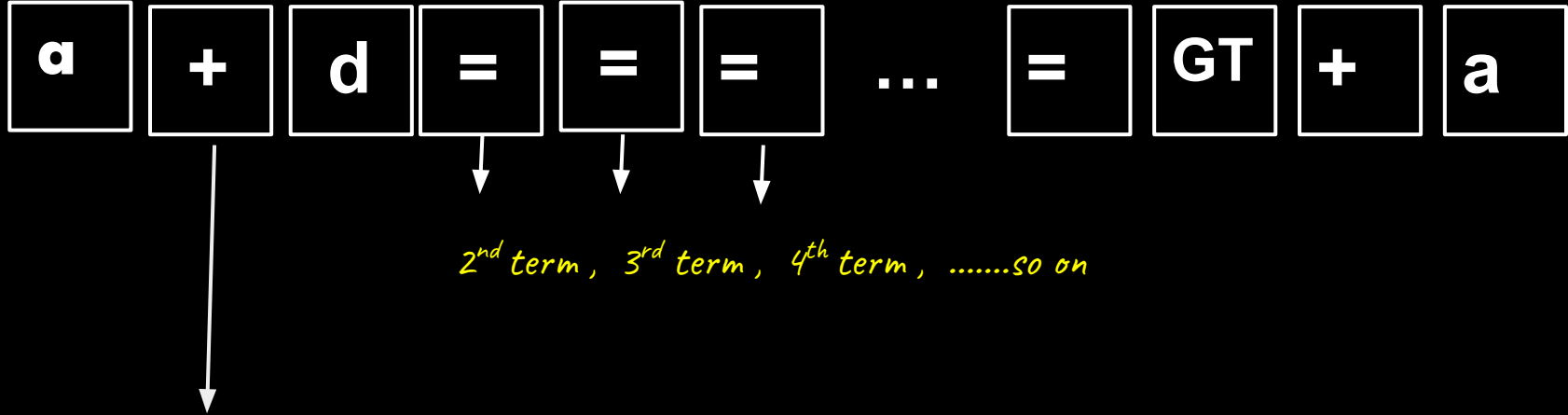
- If d is positive take $+$ or if d is negative take $-$

Here, a is first term

d is common difference

EXAMPLE : Find the 7th term of the A.P. 8, 5, 2, -1, -4,.....

To find Sum of first n terms of an AP



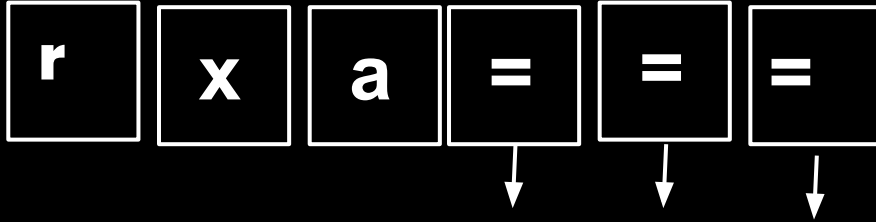
- If d is positive take + or if d is negative take –

Here, a is first term

d is common difference

EXAMPLE : Find the sum of 23 terms of the A.P 5 , 9, 13, 17,.....

To find nth term of a GP



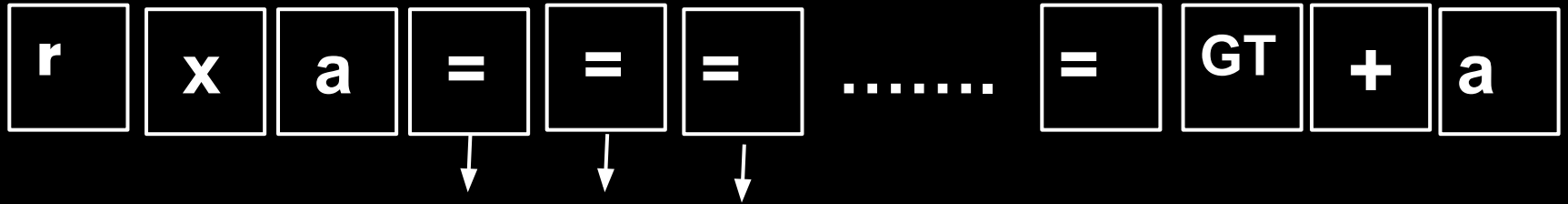
2nd term, 3rd term, 4th term,so on

Here, a is first term

r is common ratio

EXAMPLE: Find the 9th term of the G.P. 3, 6, 12, 24,

CALCULATOR TRICK TO FIND Sum of n TERMS OF A GP



2nd term, 3rd term, 4th term,so on

Here, a is first term

r is common ratio

EXAMPLE : Find the sum of 8 terms of the G.P. 3 , 6 12 ,24

**PRESENT VALUE OF ANNUITY
REGULAR**

$$PVAR = \frac{A}{i} \left[1 - \frac{1}{(1+i)^n} \right]$$

$$PVAR = A \times P(n, i)$$

TO FIND P (n, i)

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

EXAMPLE : ₹ 2500 is paid every year for 10 years to pay off a loan .
What is the loan amount if interest rate be 14% per annum
compounded annually ?

Calculator trick to find LOGARITHM

- **FIND $\log_{10} x$**

- Type x
- Press $\sqrt{\quad}$ for 13 times
- Subtract 1
- Multiply 3558

EXAMPLE

- $\log_{10} 2$
- $\log_{10} 5$