

Calculator Exercises

Calculators are good to do the following:

- (1) Perform Calculations
- (2) Graphing Functions
- (3) Problem Solving

Calculator Keys

Y = RANGE ZOOM TRACE GRAPH

Perform Calculations

(1a) Calculate $2^4 - 4^2$

Solution: Using Calculator: Press 2 ^ 4 - 4 ^ 2 ENTER

What did you get?

(1b) Calculate $3^4 - 9^2$

Solution: Using Calculator: Press 3 ^ 4 - 9 ^ 2 ENTER

(1c) Calculate $2^5 - 4^2$

Solution: Using Calculator: Press 2 ^ 5 - 4 ^ 2 ENTER

Press MODE Key. You should see something like this

Norm	Sci	Eng
Float	0123456789	
Rad	Deg	
Function	Param	
Connected	Dot	
Sequence	Simul	
Grid Off	Grid On	
Rect	Polar	

The keys 0123456789 you select will display to how many decimal places you want the solution to be.

Press RANGE key You should see something like

RANGE
 $X_{\min} = -10$
 $X_{\max} = 10$
 $X_{\text{scl}} = 1$
 $Y_{\min} = -10$
 $Y_{\max} = 10$
 $Y_{\text{scl}} = 1$
 $X_{\text{res}} = 1$

If the values are different please put these.

Graph the following functions:

$$\begin{aligned} Y_1 &= X \\ Y_2 &= X^2 \\ Y_3 &= (X - 3)^2 - 3 \\ Y_4 &= X^4 + 3X^3 - 2X^2 + 2X + 1 \end{aligned}$$

How do you enter the X and X^4 in the expressions. You press the XT for the X and X^4 for X^4