

X. GRAPHS

1. Draw the graph of $y=2x^2$
2. Draw the graph of $y=-3x^2$
3. Solve the equation $x^2-2x-3=0$ graphically
4. Solve graphically $2x^2+3x-6=0$
5. Draw the graph of $y=2x^2$ and hence solve $2x^2+3x-6=0$
6. Draw the graph of $y=x^2+3x+2$ and use it to solve the equation $x^2+2x+4=0$
7. Draw a graph for the following table and identify the variation.

x	2	3	5	8	10
y	8	12	20	32	40

Hence, find the value of y when $x = 4$.

8. A cyclist travels from a place A to a place B along the same route at a uniform speed on different days. The following table gives the speed of his travel and the corresponding time he took to cover the distance.

Speed in km / hr x	2	4	6	10	12
Time in hrs y	60	30	20	12	10

Draw the speed-time graph and use it to find

- (i) the number of hours he will take if he travels at a speed of 5 km / hr
 - (ii) the speed with which he should travel if he has to cover the distance in 40 hrs.
9. A bank gives 10% S.I on deposits for senior citizens. Draw the graph for the relation between the sum deposited and the interest earned for one year. Hence find
 - (i) the interest on the deposit of Rs. 650
 - (ii) the amount to be deposited to earn an interest of Rs. 45.