

HOLIDAY HOME WORK

ENGLISH CORE

CLASS XII

READING AND WRITING

1. Practice Comprehension Passage and Note making passages (any five) from your Goyal's Assignments.
2. Write Notices on the following occasions (three of each category)
 - a. Tours
 - b. Sports
 - c. Cultural / Extra- curricular activities
 - d. Lost & Found
 - e. Appeals
3. Draft advertisements on the following topics (three of each category)
 - a. Situation Vacant
 - b. Situation Wanted
 - c. Sale and Purchase
 - d. Lost & Found
 - e. Matrimonial
4. Draft posters to create awareness on the following topics:
 - a. Measures and prevention of Covid 19
 - b. Prevention of Drug Abuse
 - c. Violence Against Women
 - d. Fire Safety and prevention
5. Write Formal letters on the following topics (three of each category)
 - a. Complaint
 - b. Editor
 - c. Placing order
 - d. Enquiry
 - e. Job Application
6. Write articles on the following topics (Word-limit 150- 200)
 - a. My vision of future India
 - b. Digital education in India
 - c. Women safety in India
 - d. 50- years of Earth Day

LITERATURE

Go through the links given for each lesson before attempting the assignments.

FLAMINGO

L-4 The Rattrap by Selma Lagerlof

<https://youtu.be/QFObwSI2hvw>

Short questions (Think as you read)

- Questions 1, 3, 4, 5 & 6 (page no. 34)
- Questions 1 to 5 (page no. 41)
- Questions 1 & 2 (page no. 42)

Long answer type questions (understanding the text)

- Questions 3 and 5 (page no. 43)

Talking about the text

- Question 2

Poem 4- A Thing of Beauty by John Keats.

<https://youtu.be/iPz7KyQlauU>

Short questions. Page no.99

Think it out

- Question No. 1, 2,3,4,5 and 7.

R.T.C. (Refer Goyal's)

1. "Therefore, on every..... gloomy days"
 - Questions 1,2 & 3
2. "All lovely tales..... heaven's brink."
 - Questions 1, 2, 3 and 4
3. A thing of beauty..... quiet breathing"
 - Questions 1, 2 and 3

VISTAS

Lesson 4. The Enemy by Pearl S. Buck

<https://youtu.be/Cy1ti9cYoZw>

Reading with insight

- Questions 1 to 6 (100 to 120 words)

Short answer type questions:

1. Who was Dr. Sadao? Where was his house?
2. Where did Sadao meet Hana? How they married?
3. Why did the servants leave Dr. Sadao's house?

4. What did Sadao do to get rid of the enemy?

All the work assigned till date should be neatly written in your C.W. notebook and submitted for checking after the holidays.

All the Best!!!

Class XII Economics

1. Learn chapter 1 & 2 from Macro Economics

2. Learn chapter 1 from Indian economic development.

Learn all three chapters thoroughly including MCQs, fill ups, true false, reasoning etc.

Complete project also consisting 35-40 pages properly using flow charts, diagram, pics and current data by the end of June.

BUSINESS STUDIES (HOLIDAY HOMEWORK)

CODE : (054)

CLASS – XII

Project -1 : Elements of Business Environment

Students can choose any one of the following :

- (1) The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates etc.
Reason for above changes .
- (2) Paper bags packaging instead of plastic bags .
- (3) Changing role of women in the past 25 years relating to joint families , nuclear families , women as a bread earner of the family.
Changes in the requirement trend of mixers, washing machine and standard of living .
- (4) A study on child labour laws , its implementations and consequences .
- (5) The state of 'anti plastic campaign' , the law , its effects and implementation .

Project – 2 : Principles of Management

The students are required to visit any one of the following :

- (1) A departmental store
- (2) An industrial unit
- (3) Any other organization approved by the teacher .

Students are required to observe the application of the General principles of management advocated by Fayol . (14 Principles of Management are applicable or not)

Or

Students may enquire into the application of Scientific management techniques by F.W. Taylor in the unit visited .

Required : (a) Worksheets / questionnaire / interviews
(b) Organisational charts .

Project - 3 : Stock Exchange

The students are expected to

- Develop a brief report on History of Stock Exchange in India .
- Prepare a list of 15 companies listed on a stock exchange . The students may be required to report the prices of the stocks on daily basis and present it diagrammatically on the graph paper.
- They will understand the weekly holidays and the holidays under the Negotiable Instruments Act .
They will also come across with terms like closing prices , opening prices , etc.
- During this period of recording students are supposed to distinctly record the daily and starting and closing prices of the week other days under the negotiable instrument act so that they acquire knowledge about closing and opening prices.

- The students may conclude by identifying the causes in the fluctuations of prices . Normally it would be related to the front page news of the a business journal , for example,
 - Change of seasons.
 - Festivals .
 - Spread of epidemic.
 - Strikes and accidents .
 - Natural and human disasters .
 - Political environment.
 - Lack of faith in the govt. policies .
 - Impact of changes in govt. policies for specific industry .
 - International events .
 - Contract and treaties at the international scene .
 - Relations with the neighbouring countries .
 - Crisis in developed countries , etc.

(6) The students are expected to find the value of their investments and accordingly rearrange their portfolio. The project work should cover the following aspects ;

- Graphical presentation of the share prices of different companies on different dates.
- Change in market value of shares due to change of seasons , festivals, natural and human disasters.
- Change in market value of shares due to change in political environment / policies of various countries / crisis in developed countries or any other reason .
- Identify the top ten companies out of the 25 selected on the basis of their market value of shares .

It does not matter if they have made profits or losses .

Project – 4 : Marketing

Students are required to select any one product of the following :

- Cycle
- Wallet
- Squashes / jam
- Lipstick
- Pen / pencil
- Infant dress
- Coffee / tea
- Jewellery
- Ladies bag
- Bike
- Camera
- Ladies footwear

Identify one product from the above which the students may like to manufacture (pre – assumption) .

Now the students are required to make a project on the identified product keeping in mind the following :

- (1) Why have they selected this product ?
- (2) Find out '5' competitors brands that exist in the market.
- (3) What permission and licences would be required to make the product ?
- (4) What are your competitors 'Unique selling price ' (USP) ?

- (5) Does your product have any range ? Give details .
- (6) What is the name of your product?
- (7) Enlist its features.
- (8) Draw the 'label' of your product .
- (9) Draw a logo for your product .
- (10) Draft a tagline.
- (11) What is the selling price of your competitor's product ?
 - (a) Selling price to consumers
 - (b) Selling price to retailer
 - (c) Selling price to wholesaler

What is the profit margin in percentage to the

- Manufacturer
 - Wholesaler
 - Retailer.
- (12) How will your product be packaged?
- (13) Which channel of distribution are you going to use ? Give reasons for selection ?
- (14) Decisions related to warehousing , state reasons.
- (15) What is going to be your selling price ?
 - To consumer
 - To retailer
 - To wholesaler

(16) List 5 ways of promoting your product .

(17) Any schemes for

- The wholesaler
- The retailer
- The consumer

(18) What is going to be your 'U.S.P.'?

(19) What means of transport you will use and why ?

(20) Draft a social message for your label .

(21) What cost effective techniques will you follow for your product .

(22) What cost effective techniques will you follow for your
promotion plan .

At this stage the students will realize the importance of the concept of marketing mix and the necessary decisions regarding the four P's of marketing .

- Product
- Place
- Price
- Promotion

On the basis of the work done by the students the project report should include the following :

1. Type of product / service identified and the (consumer/industries) process involve there in .
2. Brand name and the product.
3. Range of the product.

4. Identification mark or logo.
5. Tagline.
6. Labeling and packaging.
7. Price of the product and basis of price fixation.
8. Selected channels of distribution and reasons thereof.
9. Decisions related to transportation and warehousing. State reasons .
10. Promotional techniques used and starting reasons for deciding the particular technique.
11. Grading and standardization .

Presentation and submission of project report :

At the end of the stipulated term , each student will prepare and submit his/her project report. Following essentials are required to be fulfilled for its preparation and submission.

1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project report should be presented in a neat folder.

The project report should be developed in the following sequences.

- Cover page should include the title of the project , student information , school and year.
- List of contents.
- Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped.)
- Introduction

- Topic with suitable heading.
- Planning and activities done during the project, if any.
- Observations and findings of the visit.
- Conclusion (summarized suggestions or findings, scope of study).
- Photographs (if any).
- Appendix.
- Teacher's observation .
- Signatures of the teachers.

ST. MARY'S PUBLIC SCHOOL
Holiday Homework (2020-21)
Class: XII
ACCOUNTANCY(055)

1. Make a comprehensive project containing
 - ➔ Acknowledgement
 - ➔ Certificate by Guide
 - ➔ Comprehensive problem
 - ➔ 20-25 journal entries (including GST).
 - ➔ Posting to ledger accounts
 - ➔ Preparation of trading and profit and loss account
 - ➔ Preparation of balance sheet
 - ➔ Any 5 ratio calculation with comments.
2. Make specific project-1(segment Analysis) on a company as assigned by the teacher.
Link to be referred for the project:
http://www.cbseacademic.nic.in/web_material/Circulars/2015/Guidelines%20for%20Practical%20Work%20in%20Accounting.pdf

things to be kept in mind while preparing project:
 - ➔ Use light colored one side ruled pastel sheets.
 - ➔ Don't use red, black and pink /orange/green pen for writing the project.
 - ➔ Printouts can be used ONLY for pasting of AUDIT REPORT.
 - ➔ Format of accounts should be clearly made.
 - ➔ While preparing pie charts use same color for same product in all pie charts, same to be done with graphs as well (don't use printouts for making pie charts/ graphs)
 - ➔ Closing of accounts in ledger and journal entries to be done neatly.
3. Revise and practice the studied chapters from scanner of the book.

CLASS Xii

(computer science /informatics practices)

HOLIDAYS HOMEWORK (2020-21)

- Do all the MCQ Test Paper in your Register.
- Make a practical file of MYSQL. The list of questions are given in PDF format link.
- <https://drive.google.com/open?id=1mpObOlyevkEQ1pOjyMaaf7QK7brBNUeL>

HOLIDAY H.W. (2020 – 21)
MATHEMATICS (041)
CLASS – XII-C/E

1. The following activities (3, 4, 5 & 6) to be done in MATHS practical file. FIGURE should be drawn on the left side plain page.
2. (i) Write all solved examples of Chapter- 2, 3 & 4.
(ii) Learn and write all formulas of ITF & Differentiation.
(iii) Solve all questions from PRACTICE MATERIAL FOLDER of chapter- 2, 3, & 4.
 - Complete your notebook. (10 MARKS)
 - Complete MATHS practical file. (10 MARKS)

ACTIVITY- 3



- **Objective:** To draw the graph of $\sin^{-1}x$, using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about the line $y=x$).

Prerequisite Knowledge: Knowledge of plotting the graph of $\sin x$ and basic knowledge of inverse trigonometric functions.

- **Materials Required:** Graph paper, ruler, eraser, pencil, colour pens, nail/safety pins

- **Procedure:** (i) Take a graph paper & cut it into a square shape. Draw two perpendiculars on the graph using ruler.

(ii) Name them as XOX' and YOY' as coordinate axes as shown in fig: 1



- (iii) Mark the points on the positive y-axis 0.5, 1, 1.5, 2. Similarly, mark the points on the negative y-axis -0.5, -1, -1.5, -2.
- (iv) Graduate the axes and mark approximately the points $(\frac{\pi}{6}, \sin \frac{\pi}{6})$, $(\frac{\pi}{4}, \sin \frac{\pi}{4})$, ..., $(\frac{\pi}{2}, \sin \frac{\pi}{2})$ i.e., $(\frac{\pi}{6}, 0.5)$, $(\frac{\pi}{4}, 0.71)$, $(\frac{\pi}{3}, 0.87)$ and $(\frac{\pi}{2}, 1)$ in the coordinate plane.
- (v) Make hole on these pts using pin or nail. Name them

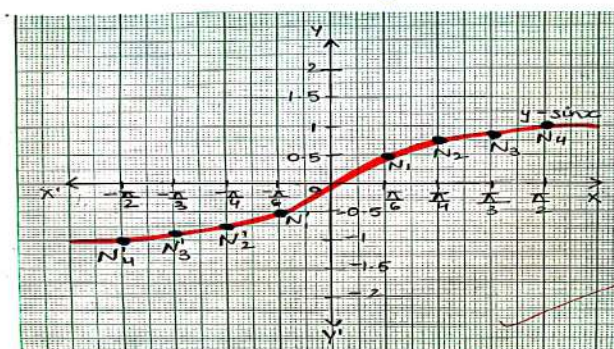


Fig. 1

as N_1, N_2, N_3 & N_4 as shown in fig 1

(vi) Repeat the above process on the negative x -axis, by making the pts $(-\frac{\pi}{6}, \sin -\frac{\pi}{6}), (-\frac{\pi}{4}, \sin -\frac{\pi}{4}), \dots, (-\frac{\pi}{2}, \sin -\frac{\pi}{2})$, i.e.,

$(-\frac{\pi}{6}, -0.5), (-\frac{\pi}{4}, -0.71), (-\frac{\pi}{3}, -0.87)$ and $(-\frac{\pi}{2}, -1)$

and make a hole on the points using safety pin or nail and name them as N'_1, N'_2, N'_3 & N'_4 . Also make hole at 0.

(vii) Draw a free hand curve by joining all the pin holes to get the graph of $\sin x$ from $-\frac{\pi}{2}$ to $\frac{\pi}{2}$ as shown in fig 1

(viii) Fold the square paper along the diagonal to get the graph $y=x$. Using ruler, draw a line on a square sheet of paper where the crease formed as shown in fig. 2.

(ix) Draw a perpendicular from the points N_1, N_2, N_3, N_4 on the line $y=x$ and produce these lines such that the length of perpendicular on both sides of the line $y=x$ are equal. Name the points on the other sides of the line as $1, 2, 3$ and 4 as shown in fig 2.



- (x) Repeat the above ~~process~~ on the -ve x -axis to get the images as l'_1, l'_2, l'_3 and l'_4 .
- (xi) Join all the pts l_1 to l_4 and l'_1 to l'_4 on both sides of the line $y=x$ to obtain the graph of $y = \sin^{-1} x$.
- (xii) clearly, the two functions $\sin x$ and $\sin^{-1} x$ are the major images of each other as shown in fig 2.



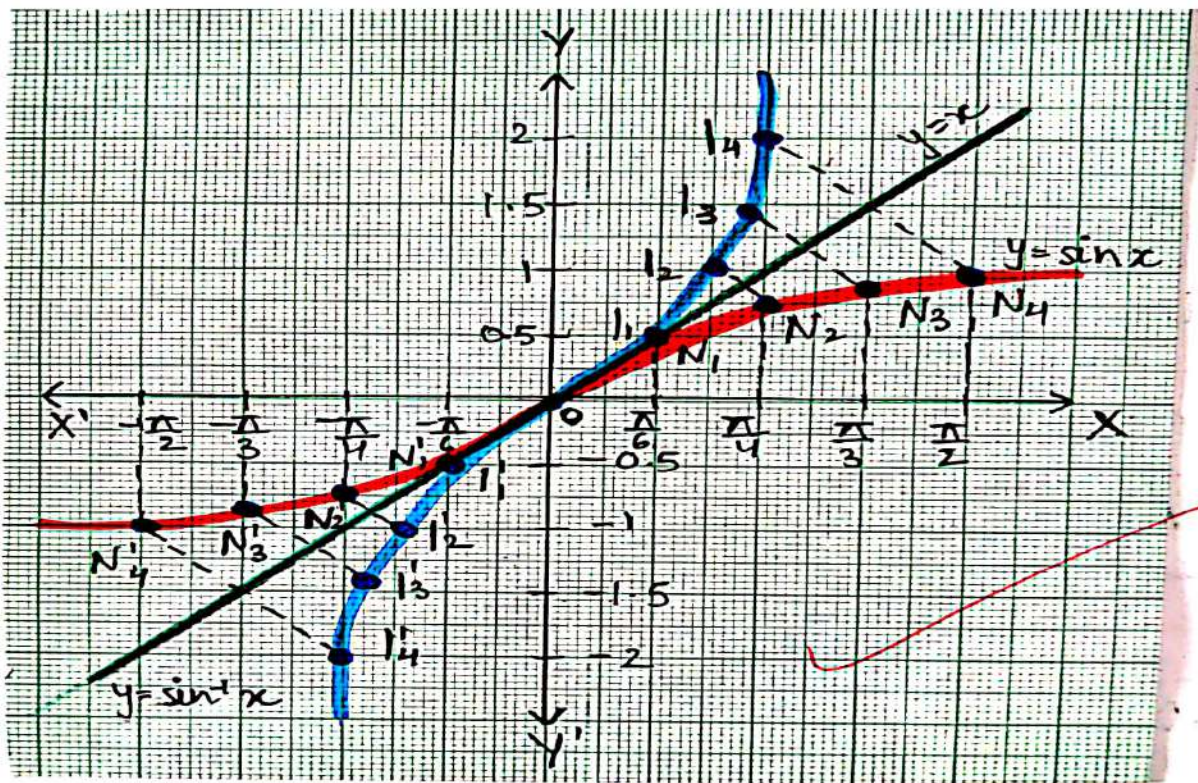


Fig. 2

• Observation :

OBSERVATION TABLE		
Points	Images of points in the mirror [the line $y=x$]	Is the line joining the pts perpendicular to $y=x$ (Yes/No)
N_1	$I_1 = (0.5, \pi/6)$	NO - points are coinciding Yes
N_2	$I_2 = (0.71, \pi/4)$	
N_3	$I_3 = (0.87, \pi/3)$	
N_4	$I_4 = (1, \pi/2)$	
N'_1	$I'_1 = (-0.5, -\pi/6)$	NO - points are coinciding Yes
N'_2	$I'_2 = (-0.71, -\pi/4)$	
N'_3	$I'_3 = (-0.87, -\pi/3)$	
N'_4	$I'_4 = (-1, -\pi/2)$	

The image of the graph of $\sin x$ in $y=x$ is the graph of $\sin^{-1} x$ in $y=x$, and the image of the graph of $\sin^{-1} x$ in $y=x$ is the graph of $\sin x$.

- Conclusion: The graph of $\sin x$ is plotted using the graph of $\sin^{-1} x$. It has been verified that the two graphs are mirror images of each other in the line $y=x$.

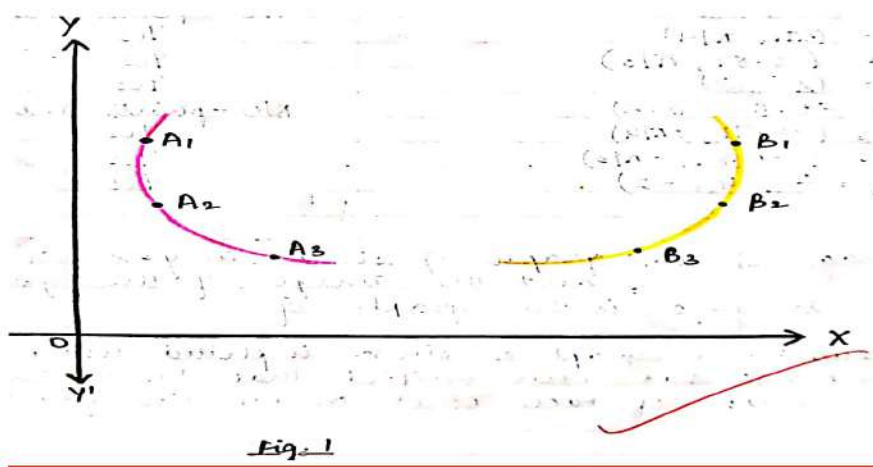


ACTIVITY 4

- **AIM :** To understand the concept of decreasing and increasing functions
- **Prerequisite knowledge :** concept of tangents, slope of line, knowledge of increasing & decreasing functions
- **Materials required :** pencil, ruler, white paper, trigonometric tables, colour pens.
- **Procedure :** (i) Take a white paper and draw two perpendicular lines to represent x and y -axis.
(ii) Draw 2 curves representing 2 funcs. Take 3 pts on left curve as A_1, A_2 & A_3 . Similarly, take 3 pts on right curve as B_1, B_2 & B_3 as in fig 1.
(iii) Draw a tangent on the left of the curve at the pt A , making an angle α , with the +ve direction of x -axis as shown in fig 2.



- (iv) α_1 is an obtuse angle, so $\tan \alpha_1$ is $-ve$, i.e. the slope of tangent at A_1 (der. of the func. at A_1) is $-ve$.
- (v) Take another 2 pts. A_2 & A_3 on the same curve & draw tangents at these pts making an angle α_2 and α_3 resp. with the $+$ ve direction of x -axis.
- (vi) Angle α_2 and α_3 are obtuse angles & therefore slopes of tangents $\tan \alpha_2$ and $\tan \alpha_3$ are both $-ve$, i.e., derivatives of func. at A_2 & A_3 are $-ve$.



- (vii) The function gives the curve in fig 2, is a decreasing function.
- (viii) From the 3 pts B_1, B_2 and B_3 given on the right curve, draw the tangent from each pt making angles β_1, β_2 , & β_3 respectively with the +ve direction of x-axis as shown in fig 3.
- (ix) β_1, β_2 & β_3 are all acute angles & therefore the slope of tangents at B_1, B_2 & B_3 are +ve i.e. the derivative of the function at these pts are +ve. Thus, func. given by this curve is an increasing func.

• Observation :

OBSERVATION TABLE

Angles on the left curve ($> 90^\circ$)	Slope (+ve/-ve)	Angles on the right curve ($< 90^\circ$)	Slope (+ve/-ve)
$\alpha_1 = 100^\circ$	$\tan \alpha_1 = -ve$	$\beta_1 = 80^\circ$	$\tan \beta_1 = +ve$
$\alpha_2 = 130^\circ$	$\tan \alpha_2 = -ve$	$\beta_2 = 45^\circ$	$\tan \beta_2 = +ve$
$\alpha_3 = 150^\circ$	$\tan \alpha_3 = -ve$	$\beta_3 = 25^\circ$	$\tan \beta_3 = +ve$



Thus, the function represented by the curve (on left) is

Thus, the function represented by the curve (on right) is

- Conclusion: If $f'(x)$ is +ve then the func. is increasing & if $f'(x)$ is -ve then the function is decreasing. The concept of increasing & decreasing func. is explained by this activity.

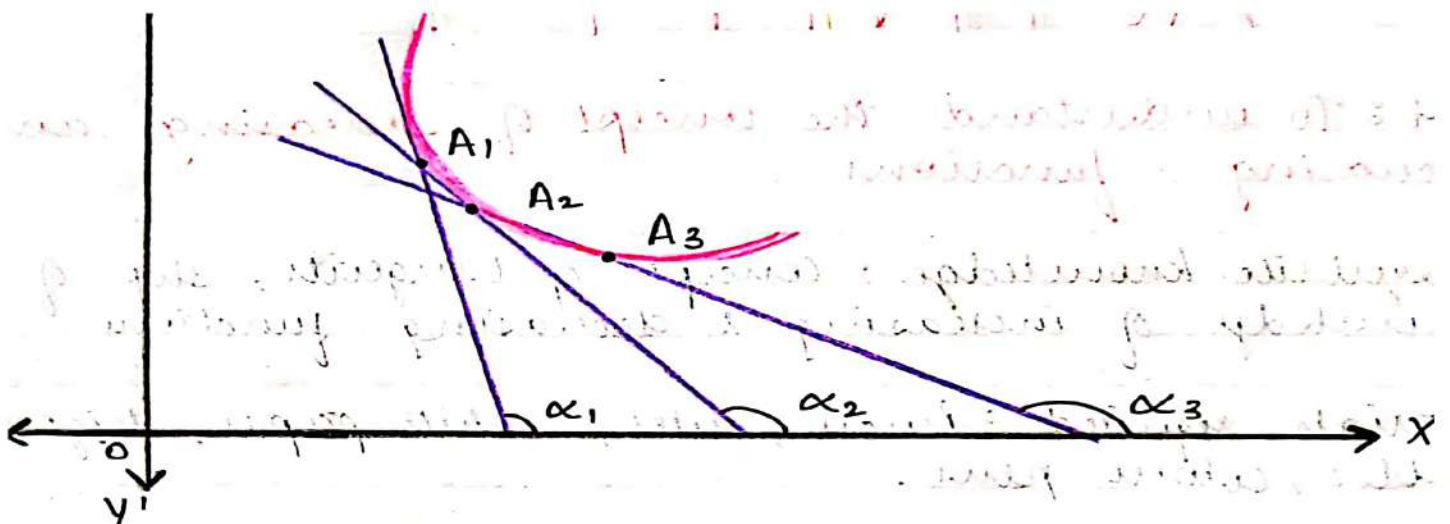


Fig. 2.

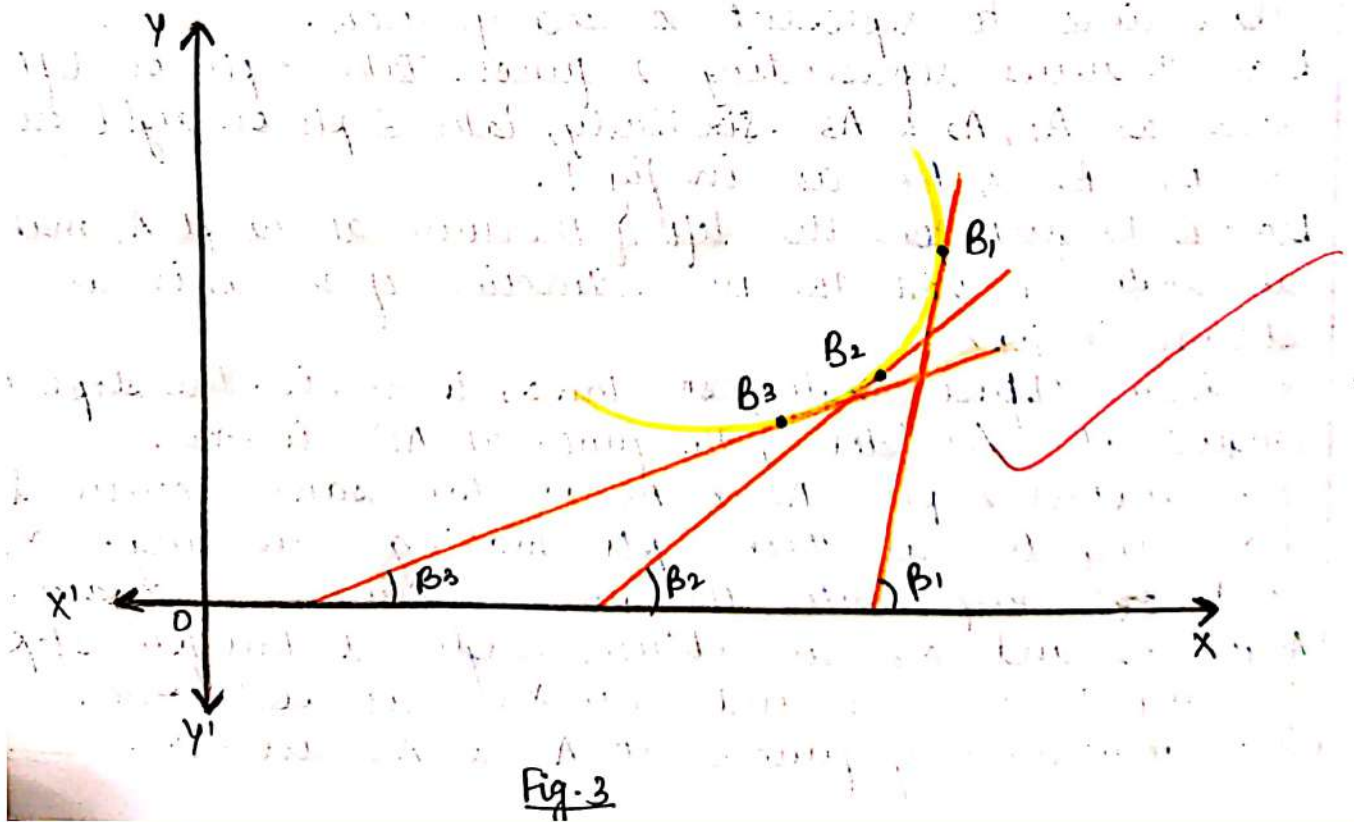


Fig-3

ACTIVITY 5.

- Objective: To understand the concepts of local maxima, local minima and point of inflection.
- Pre-requisite knowledge: Concept of tangents, knowledge of maxima, minima, local minima, local maxima and pt of inflexion.
- Procedure: (i) Take a cardboard sheet of convenient size & paste white paper on it.
(ii) Draw two perpendicular lines $X'OX$ and YOY' intersecting at O , which represents x -axis & y -axis.
(iii) Now, draw a curve as shown in Fig 1.



- (iv) Take 5 pts on the curve A, B, C, D & E, and draw a line of 2 cm on each pt on the curve.
- (v) The lines at the A, B, C & E represents tangents to the curve & are parallel to the x-axis. The slopes of tangents at these pts are 0, i.e., the value of the first derivative at these pts is 0. The tangent at D intersects the curve.
- (vi) Take 2 pts, one to the immediate left of A & other to the immediate right of A. Name these pts as A_1 & A_2 .
- (vii) Repeat the process for pts for B, C, D and E. let their respective pts be (B_1, B_2) , (C_1, C_2) , (D_1, D_2) and (E_1, E_2) .
- (viii) Draw tangents at pts $A_1, A_2, B_1, B_2, C_1, C_2, D_1, D_2, E_1, E_2$.
- (ix) Sign of the slope of the ^{tangent} derivative (first derivative) at a pt. immediate left of A (i.e. A_1) is negative &



sign of the slope of the tangent (first derivative) at a pt immediate right of A (ie. A_2) is +ve. This implies at pt A, sign of the first derivative changes from -ve to +ve. So, the pt A is pt of local minima.

(x) Similarly, at pt C the sign of the first derivative changes from -ve to +ve. When we move from pt C_1 to C_2 . So, the pt C is also a pt of local minima.

(xi) Sign of the slope of the tangent (first derivative) at pt on the curve immediate left of B (ie. B_1) is +ve & immediate right of B (ie. B_2) is -ve. This implies that at pt B, sign of derivative changes from +ve to -ve. So, the pt B is the pt of local maxima.

(xii) Similarly, we can show that pt E is also pt of local maxima.

(xiii) At the pt D, sign of first derivative does not change. So, it is a pt of inflexion.



• Observation :

OBSERVATION TABLE			
POINTS	NATURE OF FUNC.	PT. OF LOCAL MAXIMA/MINIMA	REMARKS
A ₁	Decreasing		Decreasing
A	None	Pt. of local minima	to
A ₂	Increasing		increasing

B ₁	Increasing	Pt. of	Increasing to
B	None	local	Decreasing
B ₂	Decreasing	maxima	
C ₁	Decreasing	Pt. of local	Decreasing
C	None	minima	to
C ₂	Increasing		Increasing
D ₁	Increasing	Pt. of	
D	None	inflection	None
D ₂	Increasing		
E ₁	Increasing	Pt. of	Increasing
E	None	local	to
E ₂	Decreasing	maxima	Decreasing



- Conclusion: Point of local maxima occurs when slope of the tangent changes sign from +ve to -ve & pt. of local minima occurs when slope of the tangent changes sign from -ve to +ve. If slope of the tangent does not change sign at a pt., then such a pt is called pt. of inflection.

• 6.



- **Objective:** To identify whether the given function is many-one or one-one, into or onto by considering domains & codomains.



- Pre-requisite knowledge: Knowledge of sets, elements, relations, function & types of functions.
- Procedure: (i) Take 2 colour sheets of paper, cut out 4 rectangular strips from a blue sheet & cut out 4 rectangular strips from a green colour sheet & paste them on the cardboard as shown in figures.
- (ii) Name the blue rectangular strip as A & green strip as B.
- (iii) Let us consider a function $f(x) = x^2$. Assume the domain & the codomain for the function $f(x)$ represented by set A & B respectively.
- (iv) Join the elements of set A to the elements of set B as shown in fig. 1.
- (v) Again, assume $A = [0, 1, 2]$ and $B = [0, 1, 4, 9]$. Join the elements of set A to the elements of set B as shown in fig. 2.
- (vi) For the same function, $f(x) = x^2$. Take the set $A = [-1, 0, 1, 2]$ and set $B = [0, 1, 4]$. Join the elements of set A to the elements of set B as shown in fig. 3.



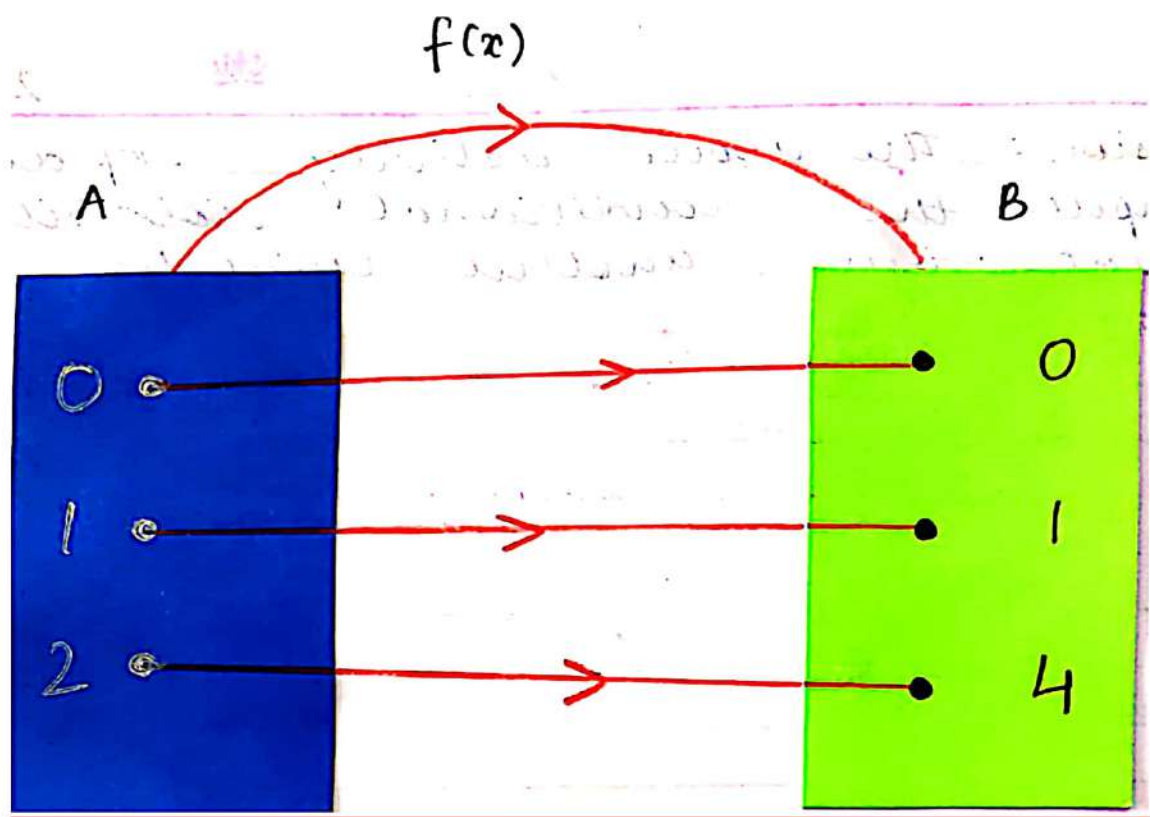


Fig. 1

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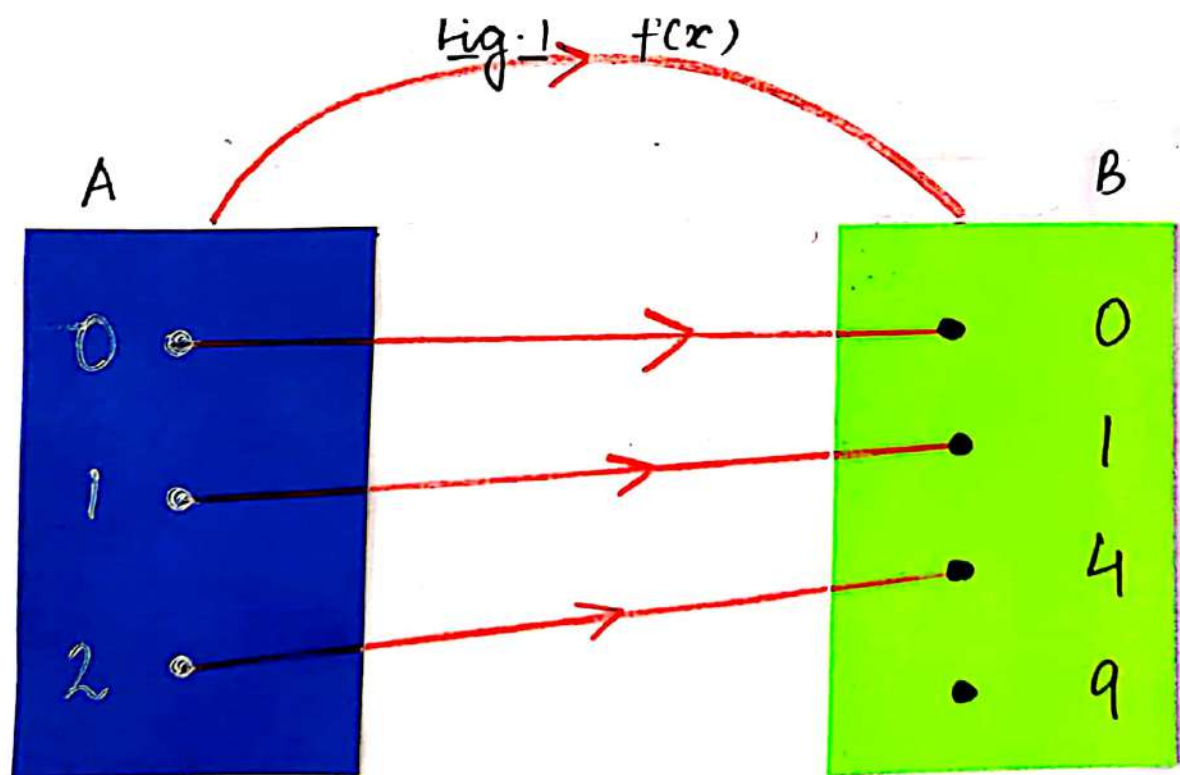


Fig. 2

(vii) let $A = [-1, 0, 1, 2]$ and $B = [0, 1, 4, 9]$. Now, join the elements of set A to the elements of set B as shown in fig B.

• Observation :

OBSERVATION TABLE				
FUNCTION	DOMAIN	CODOMAIN	ONE-ONE/ MANY-ONE	INTO/ ONTO
$f(x) = x^2$	$\{0, 1, 2\}$	$\{0, 1, 4\}$	ONE-ONE	ONTO
$f(x) = x^2$	$\{0, 1, 2\}$	$\{0, 1, 4, 9\}$	ONE-ONE	INTO
$f(x) = x^2$	$\{-1, 0, 1, 2\}$	$\{0, 1, 4\}$	MANY-ONE	ONTO
$f(x) = x^2$	$\{-1, 0, 1, 2\}$	$\{0, 1, 4, 9\}$	MANY-ONE	INTO

• conclusion : Any function, whether it is many-one or one-one, into or onto can be identified by this activity.



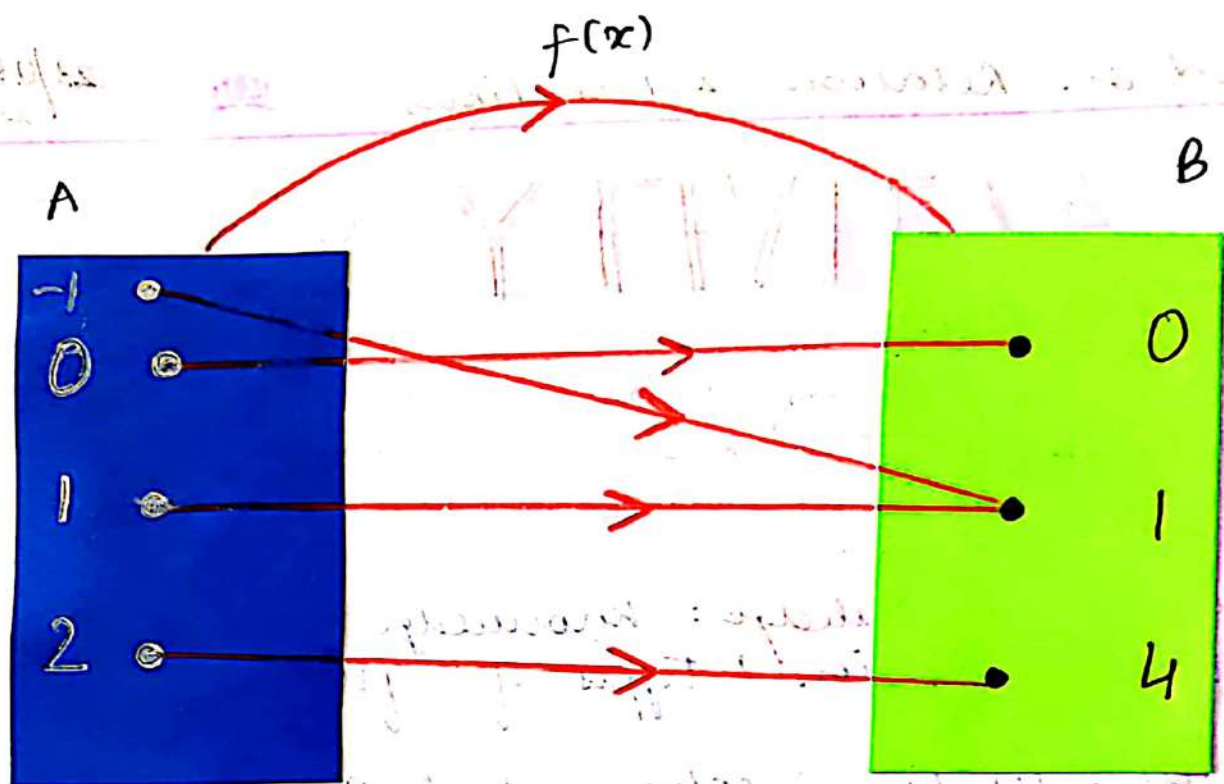


Fig. 3

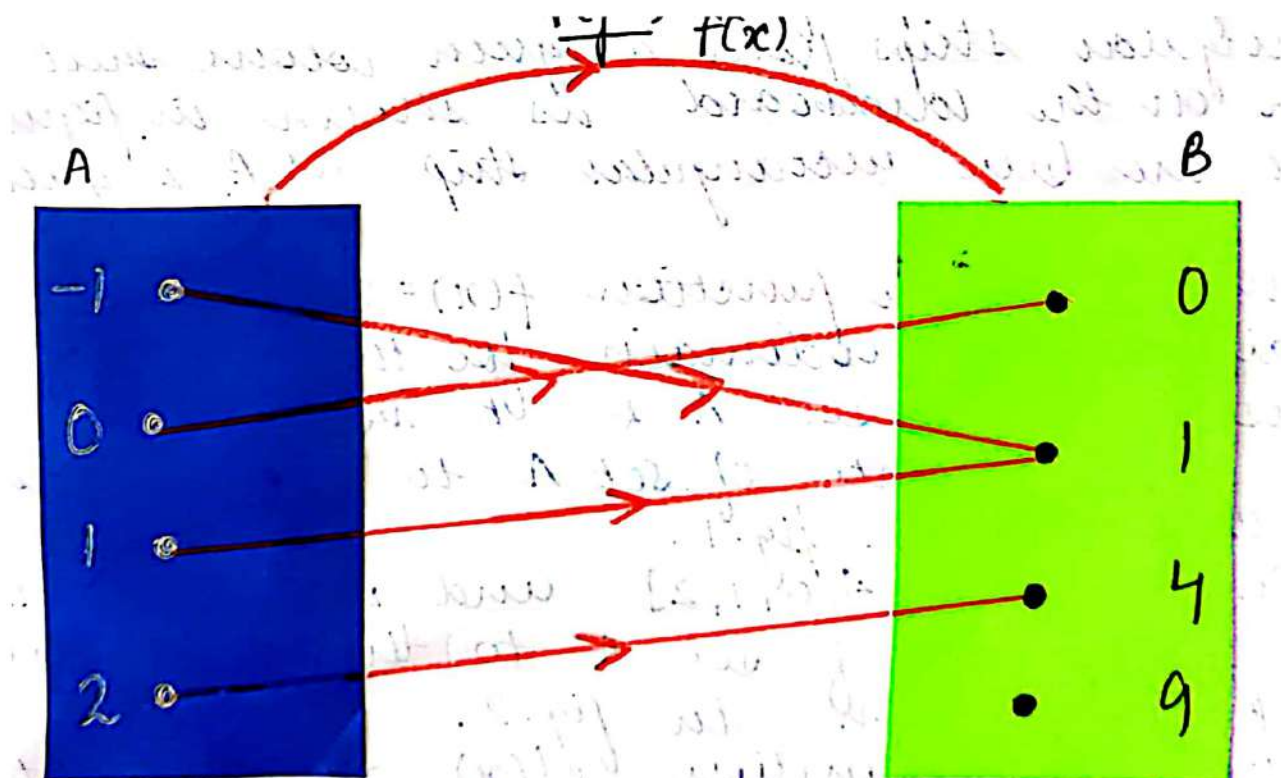


Fig .4

All the best and take care. **BY: AKS(9818448039)**



HOLIDAY HOMEWORK

CLASS - 12

SUBJECT - PHYSICAL EDUCATION (048)

THEORY

- Read the following chapters.
- Write and learn the question answers of these chapters.
- Chapters are as follows :

Unit - 1 Planning in Sports

Unit - 2 Sports & Nutrition

Unit - 3 Yoga & Lifestyle

Unit - 4 Physical Education & Sports for CWSN (Children With Special Needs)

PRACTICAL

- Prepare record file for Physical Education.
- Record file shall include :

1) **Any one game** of your choice out of the list below.

Volleyball, Basketball, Cricket, Kho - Kho.

Description of game should include history of game, labelled diagram of field

and court, rules, skills, terminologies, important tournaments and famous personalities.

2) Procedure for Asanas, benefits and contraindications for any two asanas for each lifestyle disease.

Lifestyle diseases are :

Obesity, Diabetes, Asthma, Hypertension and Back pain.

Instructions for record file :

- Use A4 size sheets.
- Plain paper should be arranged on left hand side and ruled paper on right hand side.
- Diagram should be drawn or pasted on plain paper and handwritten work on ruled sheets.

BHRIGURAJ SHARMA