

ENGLISH	Let's Learn & Create Together
	Project Work
	1. PowerPoint Presentation
	Make a PowerPoint Presentation reflecting your relationship with your Parents, especially your mother. You can take inspiration from the poem 'My Mother at Sixty-six'. Make sure that the PPT doesn't consist of more than 5/6 slides and that it has pictures in it.
	2. <u>Graphic Organizer</u>
	Prepare a digital picture/sketch/ painting of the poem 'Aunt Jennifer's Tigers'.
	3. <u>Collage Making</u>
	Prepare a collage showcasing 'Gender Stereotypes' prevalent in Indian societies.
	4. <u>Book Trailer</u>
	Read a book of your choice and prepare a book review in the form of a BOOK TRAILER in 8-10 slides. Instructions:
	a. The book trailer is a video advertisement for a book which promotes the book and encourages readers to read it. b. Include the following-
	<ul> <li>What is the genre of the book- is it fantasy, thriller, biography (etc.)</li> <li>What is the catchiest thing about the book?</li> <li>Add pictures and dialogues.</li> </ul>
	<ul> <li>Choose a theme similar to the genre of the book.</li> </ul>
	c. Make it interesting so that everyone who watches the trailer is curious to read the book.
	5. <u>Earning by Doing</u>
	Every Student has to engage themselves in some kind of work. The work should lead to some kind of earnings. You can assist your parents in doing some chores, or work at shops. The duration of this task is one week. Every day you will keep an account of your experiences in the form of a report.
	For this activity you will make a separate project file that must contain- • Title Page • Acknowledgement and Certificate • What work did you choose and Why • Everyday account of experience in the form of report • Learning from the Project i.e. Reflection.
	6. Project
	Make one informative project on the topic assigned to you. The project must have-
	a. Title Page
	b. Acknowledgment and Certificate
	c. About the Author
	<ul><li>d. A brief summary of the prose/poetry</li><li>e. Themes covered in the chapter</li></ul>

	7. Notice Writing			
		Attempt the following question in your Grammar notebook		
	a.	a. As the Activity Captain of your school, you are organizing a Career		
	_	Counselling Session for XI and XII standard students of your school. Write		
		a notice giving details of it to be displayed on your school notice board.		
		(Word Limit: 50 words)		
	b.	<ul> <li>b. You are Nisha/Nitin, Secretary of Green Valley Apartment, Faridabad. You are concerned about the callous and indifferent attitude of the people in your Society, who are not wearing masks and also not following the norms of social distancing. As a result, they are not only exposing themselves but also others to the risk of being infected by Covid-19. Write</li> </ul>		
		a Notice	in about 50 words for the residents of the society to strictly	
		follow Co	vid-19 Protocol.	
ACCOUNTANCY	•	Prepare a knowledgeable and presentable power point presentation		
		according	g to the roll numbers and topics mentioned against them below.	
		(You can	refer book and internet videos, to make your PPT, but it must be	
			inal work )	
		Roll	Торіс	
		no.		
		<b>12051</b> Journal entries relating to the Profit and Loss Appropriation		
		Account		
	12052 Partnership Deed			
		12053	Provisions affecting treatment in the absence of Partnership Deed	
		12054	Provisions affecting treatment in the absence of Partnership Deed	
		12055	Profit and Loss Appropriation Account	
		12056	Journal entries relating to the Profit and Loss Appropriation	
		Account		
		12057 Partnership Deed		
		12058 Profit and Loss Appropriation Account		
		12059 Partner's Capital Accounts (Fluctuating Method)		
		12060	Partner's Capital Accounts (Fluctuating Method)	
		12061 Interest on Partners' Drawings		
		12062 Provisions relating to interest on capital		
		12063 Interest on Partners' Drawings		
		12064 Partner's Capital Accounts (Fixed Method)		
		12065	Partner's Capital Accounts (Fixed Method)	
		12066	Charge against Profit and Appropriation of Profit	
		12067	Provisions relating to interest on capital	
		12068	Charge against Profit and Appropriation of Profit	
		12069	Goodwill-meaning and types	
		12070	Methods of calculating goodwill	
	•	Prepare a digital picture/sketch/ painting/ collage/ wall hanging/		
		descriptive 3D chart/ model/Designing through photoshop/ Sketching/		
		Cartooning/Episodes from stories from textbooks/video on the same		
		topics given above.		
	Complete all the assignments in your notebook that are sent to you			

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	through WhatsApp.		
	Complete all the worksheets in fair notebook given during on line cl		
	• Complete the scanner of Ch 1 and Ch 2 of Accountancy in your fair		
	notebooks.		
	• Do objective type questions and short questions of Ch 1 and 2 that are		
	given on the back exercise of the chapter.		
Ducinoss Studios	Prepare a knowledgeable and presentable power point presentation		
<b>Business Studies</b>			
	according to the roll numbers and topics mentioned against them below.		
	(You can refer book and internet videos also, to make your PPT, but it		
	must be your original work )		
	Roll Topic		
	no.		
	12051 Management Definition (Efficiency, effectiveness)		
	12052 Characteristics of Management		
	12053 Objectives of Management - Economic		
	12054 Management as a Science		
	12055 Management as an Art		
	12056 Management as a Profession		
	12057 Functions of Management		
	12058 Importance of Management		
	12059 Top Level Management		
	12060 Middle Level Management		
	12061 Lower Level Management		
	12062 Coordination Concept and Characteristics		
	12063 Importance of coordination		
	12064 Objectives of Management – social and personal		
	12065 Characteristics of Management		
	12066 Functions of Management		
	12067 Importance of Management		
	12068 Management Definition (Efficiency, effectiveness)		
	12070 Principles of Management -Fayol – 1to 7		
	12071 Principles of Management -Fayol – 7 to 14		
	<ul> <li>Prepare a digital picture/sketch/ painting/ collage/ wall hanging/</li> </ul>		
	descriptive 3D chart/ model/Designing through photoshop/ Sketching/		
	Cartooning/Episodes from stories from textbooks/video on the same		
	topics given above.		
	Complete all the worksheets in fair notebook and prepare the assignment		
	<ul> <li>project.</li> <li>Complete the case study and objective type questions of Ch 1and Ch 2 from supplementary book.</li> <li>Complete the case study assignment, given during the classes.</li> <li>Write some real life business incidents that have happened in this pandemic period. Write down what types of changes have come in business.</li> <li>Prepare a product that you would like to sell in the market. Eg. It can be a</li> </ul>		
	mobile, book, laptop, hand wash, toothpaste etc. Or any other product.		
	Give it's name and features and marketing stategies for it.		

ECONOMICS	1. Prepare ppt on the following topics allotted as per your Roll no.:
	01-07 Challenge of Education
	08-14 Organic Farming
	14-20 Sustainable development
	(minimum 10 slides)
	2. Learn all '1' marks questions of Indian Economic Development (pdf file)
	3. Ch-8 Environment and Sustainable Development.
	For '3' OR '4' Marks
	1. Define 'Environment'. Write example of biotic and abiotic elements
	environment.
	2. What are the significance or functions of Environment?
	3. State the meaning of Environment crisis.
	4. What are the causes of Environmental crisis?
	FOR' 6' Marks
	5. Define 'Sustainable Development'. Explain the strategies for Sustainable
	Development.
	6. Identify Six factors contributing to land degradation in India.
	7. Write short notes on the following topics:-
	i. Global warming
	ii. Ozone layer
	Ch-5 (Human Capital Formation in India)
	For '3' or '4' Marks
	1. Define 'Human Capital' and 'Human Capital Formation'.
	2. Difference between 'Physical Capital' and 'Human Capital'.
	3. What are the sources of 'Human Capital'?
	4. How Human Capital helps in Economic growth?
	OR
	Explain the significance of Human Capital Formation.
	FOR '6' Marks
	5. Explain the major problems facing Human Capital Formation in India.
	6. What are the importance and objectives of education?
	7. Explain the problems or challenges of Education in India.
	CH-6 Rural Development
	FOR '3' OR '4' Marks
	1. Define 'Rural Development'. Name the types of lingering and emerging
	challenges in Rural areas.
	2. How many types of 'Rural Credit'. Explain with examples.
	3. What are the sources of Rural Credit? Give examples.
	4. Explain the role of 'Cooperative Credit Societies' and 'NABARD' in Rural
	Credit.
	FOR '6' Marks
	5. Define Agricultural marketing. State the main steps taken by the
	government in developing rural markets.

6.	Explain the employment outside the Agriculture in Rural areas.
7.	Define organic farming and explain the advantage and limitations of
	organic farming.
8.	Distinguish between 'Green Revolution and Golden Revolution.
	Ch-7 Employment
	FOR '3' or '4' Marks
	How many types of workers.
	Explain the types of unemployment in India.
	What is the jobless growth? Explain it.
4.	Write the formula of the following terms:-
	i. Workforce ii. Rate of unemployment iii. Participation Rate.
_	FOR'6' MARKS
	Explain the causes of unemployment in India.
6.	Explain the steps taken by government to remove unemployment in India.
7.	Explain some recent initiatives taken by government to remove
	unemployment in India.
	Ch-1 (Indian Economy on the eve of Independency) <u>FOR '3' or '4' Marks</u>
1.	Explain the status of Indian economy on the eve of Independence.
2.	Explain the status of Indian Agriculture on the eve of Independence.
3.	Why handicrafts decline at the time of British government.
4.	Describe the status of India's foreign trade at the time of British
	government.
5.	Explain demographic profile at the time of British government.
6.	Is there any positive impact of the British rule in India? Explain it.
7.	Explain the impact of Railways in India.
Ch	-9 (Comparative Development Experiences of India and its neighbours ) FOR'3' OR '4' Marks
1.	Compare India, Pakistan and China on the basis of demographic
	Indicators.
2.	Compare India, Pakistan and china on the basis of Gross Domestic Product
	and Sectoral Changes.
3.	Compare India, Pakistan and China on the basis of Human Development.
4.	Explain the path (Strategy) of Development of China.
5.	Describe the Path (Strategy) of Development of Pakistan.
6.	Explain the Path (Strategy) of Development of India.
7.	State the meaning of 'Great Leap Forward Campaign' in 1958.
8.	What is the important implication of the 'One Child norm' in China.
	FOR '6' Marks
	State any six indicators of Human Development.
4.	Plant sapling in 10 inch black nursery pot. Take care of it and submit to
	school after summer vacation.

IINFORMATICS	IMPORTANT NOTE:
PRACTICES	1 To 7 questions are to be done in IP register, Make project synopsis (spiral
	binding) and learn chapter 3(SQL),5(SOCIETAL IMAPCT)
	WEEKLY ASSESSMENT WILL BE DONE ON THE BASIS OF:
	WEEK I :
	1. After practicals, Atharv left the computer laboratory but forgot to sign off from
	his email account. Later, his classmate Revaan started using the same computer.
	He is now logged in as Atharv. He sends inflammatory email messages to few of
	his classmates using Atharv's email account. Revaan's activity is an example of
	which of the following cyber crime? Justify your answer.
	a) Hacking
	b) Identity theft
	c) Cyber bullying
	d) Plagiarism
	2. Rishika found a crumpled paper under her desk. She picked it up and opened
	it. It contained some text which was struck off thrice. But she could still figure
	out easily that the struck off text was the email ID and password of Garvit, her
	classmate. What is ethically correct for Rishika to do?
	a) Inform Garvit so that he may change his password.
	b) Give the password of Garvit's email ID to all other classmates.
	c) Use Garvit's password to access his account.
	3. Suhana is down with fever. So she decided not to go to school tomorrow. Next
	day, in the evening she called up her classmate, Shaurya and enquired about the
	computer class. She also requested him to explain the concept. Shaurya said,
	"Mam taught us how to use tuples in python". Further, he generously said, "Give
	me some time, I will email you the material which will help you to understand
	tuples in python". Shaurya quickly downloaded a 2-minute clip from the Internet
	explaining the concept of tuples in python. Using video editor, he added the text
	"Prepared by Shaurya" in the downloaded video clip. Then, he emailed the
	modified video clip to Suhana. This act of Shaurya is an example of:
	a) Fair use
	b) Hacking
	c) Copyright infringement
	d) Cyber crime
	· ·
	4. Write the differences between the following:
	a) Copyrights and Patents
	b) Plagiarism and Copyright infringement
	c) Non-ethical hacking and Ethical hacking
	d) Active and Passive footprints
	e) Free software and Free and open source software
	5. You are planning to go for a vacation. You surfed the Internet to get answers
	for the following queries:
	a) Weather conditions
	b) Availability of air tickets and fares
	c) Places to visit
	d) Best hotel deals
	Which of your above mentioned actions might have created a digital footprint?
	6. What is data privacy? Websites that you visit collect what type of information
	about you?

	WEEK II: (done on SQL interface take print out and paste on IP Register)
	7. Complete Practical Questions With Database query using SQL
	i) To create a database
	ii) To create a student table with the student id ,name ,class,dob,sex, city and
	marks as attributes where the student id is the primary key.
	iii) To insert the details of atleast 10 students in the above table.
	iv) To delete the details of a particular student in the above table.
	v) To increase marks by 5% for those students who have studid more than 6
	vi) To display the entire content of the table.
	vii) To display studid, name and marks of those students who are scoring marks
	more than 450
	WEEK III-IV:
	8. Prepare the basic synopsis of project as per the following guidelines:
	(printout)
	The aim of the class project is to create tangible and useful IT applications. The
	learner may identify a realworld problem by exploring the environment. e.g.
	Students can visit shops/business places, communities or other organizations in
	their localities and enquire about the functioning of the organization, and how
	data are generated, stored and managed. The learner can take data stored in a
	csv or database file and analyze it using Python libraries and generate
	appropriate charts to visualize. If an organization is maintaining data offline, then
	the learner should create a database using MySQL and store the data in tables.
	Data can be imported in Pandas for analysis and visualization. Learners can use
	Python libraries of their choice to develop software for their school or any other
	social good. Learners should be sensitized to avoid plagiarism and violation of
	copyright issues while working on projects. Teachers should take necessary
	measures for this. Any resources (data, image etc.) used in the project must be
	suitably referenced
	Commerce
	Group 11:Esha,Chirag, Ritesh
	Group 12: Deepanshu, Abhishek, Mayank kain
	Group13:Prince,Tanishq,Fardan
	Group 14: Nidhi, Vishal, Preeti
	Choose any one topic or other for the project synopsis from the list given below:
	Player Information System
	Payroll System
	Hospital Management
	Student Management System
	Mobile Billing System
	Billing System(Any)
	Student Fee Management
	System Banking
	Library Management System
	Hotel Management System
	School Information System
	Bank Management System etc.
PHYSICAL EDUCATION	1. Complete the work of L1 & L2 in your registers and learn them.
	2. Revise worksheets and notes provided on the class Whatsapp group.
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	3. Write the following in your Physical Education Lab Manual (Practical File) -
	<u>PART A. PHYSICAL FITNESS TEST –</u>
	SAI Khelo India Test, Brockport Physical Fitness Test (BPFT)
	PART B. GAMES AND SPORTS-
	Any one game out of the options below according to your roll no.
	Labelled diagram of field, rules, equipment, etc.
	<ul> <li>Roll No. 1 To 5 – Cricket / Football</li> </ul>
	<ul> <li>Roll No. 6 To 10 – Swimming / Volleyball</li> </ul>
	<ul> <li>Roll No. 11 To 15 – Badminton / Hockey</li> </ul>
	Roll No. 16 To 20 – Basketball / Boxing
	Roll No. 21 To 25 – Kabaddi / Handball
	Roll No. 26 To 30 – Tennis / Bocce
	PART C. GAMES/ SPORTS FOR CWSN-
	Any one game of your choice out of the list below. Labelled
	diagram of field, rules, equipment, etc. (boccia, sitting volleyball,
	wheelchair basketball, unified badminton, unified basketball, unified
	football, blind cricket, goalball, floorball, wheelchair races and throws)
	PART D. YOGA-
	Do practice of any five asana at your home on daily basis.
	PART E. ASANAS-
	Procedure for asana, benefits and contraindication of any two
	asana for lifestyle diseases- Diabetes, Obesity, Hypertension,
	Asthma.
	4. Make a self-video of explaining any one chapter/one topic with a
	PowerPoint presentation (PPT) and send it to this mail-id -
	jhsphysicaleducation1@gmail.com. Instructions for making a video –
	a. Use a clear background while shooting the video.
	b. Wear school uniform only.
	c. Voice should be audible.
	d. Duration – 2 min.
	e. Video should include school name and logo, your name and class.
	f. Use English language only for explanation.
MATHS	Do the following activities in the mathematics lab manual
	Activity 1 To verify that the relation R in the set L of all lines in a plane defined by
	R ={ (I, m) : I    m} is an equivalence relation.
	Activity 2 To demonstrate a function which is not one-one but is onto.
	Activity 3 To draw the graph of $\sin^{-1} x$ , using the graph of $\sin x$ and demonstrate
	the concept of
	mirror reflection (about the line $y = x$ ).
	<u>Activity 4</u> To sketch the graphs of $a^x$ and $\log_a x$ , $a > 0$ , $a \neq 1$ and to examine that
	they are mirror
	images of each other.
	And the man find and the light is for function first starting the start of the star
	Activity 5 To find analytically the limit of a function $f(x)$ at $x = c$ and also check
	the continuity of
	the function at that point.
	Activity 6 To understand the concepts of decreasing and increasing functions.
	Activity 7 To construct an open box of a maximum volume from a

given	given rectangular sheet by		
	cutting equal squares from each corner.		
	Activity 8 To understand the concepts of absolute maximum and minimum values of a function		
	in a given closed interval through its graph.		
	<u>Activity 9</u> To measure the shortest distance between two skew lines and verify it analytically.		
Activ A wh	Activity 10 To explain the computation of conditional probability of a given event		
	-	ready occurred through an example of throwing a	
pair c	of dice.	ready occurred through an example of throwing a	
Maki	ng of PPT & working mo	del	
Prepa	are a PPT and a workir	ng model according to the roll number and topic	
ment	ioned in the table belo	ow for the maths exhibition. Make beautiful and	
colou	Irf <mark>ul charts supporting yo</mark>	our model also.	
	Roll no.	Торіс	
	12055, 12056	Area under the Curve	
	12057, 12061	Differential Equations	
	12063, 12066	Vector Algebra	
	12068, 12070	Three Dimensional Geometry	
СОМ	PLETION OF ASSIGNMEN	IT	
CONT	TINUOUS AND REGULA	R PRACTISE MAKE THE STUDENT PERFECT IN the	
<u>subje</u>	<u>ect.</u>		
recap	Complete the following assignment in your maths register. It will help you in recapitulating concepts done in the class.		
	<u>PTER 3</u>		
	1) If a matrix contains 10 elements then write down all its possible orders. 2) Form a matrix of order 2 x 3 in which $a_{ij} = \frac{ 2i-j }{3}$ 3) Find the value of w, x, y and z if A = B where A = $\begin{bmatrix} w - x & 2w + y \\ 2w - x & 3y + z \end{bmatrix}$ and B = $\begin{bmatrix} -1 & 5 \\ 0 & 13 \end{bmatrix}$		
	$13^{1}$ $2x + 5$ $3^{1}$		
4) If	$\begin{vmatrix} 2x+5 & 3\\ 5x+2 & 9 \end{vmatrix} = 0$ then find	d the value of x	
5) If <i>A</i>	$\mathbf{A} = \begin{bmatrix} -2 & 2\\ 4 & 3 \end{bmatrix} \text{ and } \mathbf{B} = \begin{bmatrix} -1\\ 0 \end{bmatrix}$	$\begin{bmatrix} 1 & 7 \\ 0 & 10 \end{bmatrix}$ then find AB and BA	
	epresent matrix $A = \begin{bmatrix} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$ \begin{array}{ccc} 4 & 2 & -3 \\ 1 & 3 & -6 \\ -5 & 0 & -7 \end{array} \end{array} $ as the sum of symmetric and skew	
7) If <i>A</i>	$A = \begin{pmatrix} 5 & 2 \\ 3 & 1 \end{pmatrix}$ and $B = \begin{pmatrix} 2 \\ -1 \end{pmatrix}$	$\binom{3}{6}$ then find the value of $ AB $	

8) Find matrix A such that  $\begin{pmatrix} 2 & -1 \\ 1 & 0 \\ -3 & 4 \end{pmatrix}$ . A =  $\begin{pmatrix} -1 & -8 \\ 1 & -2 \\ 9 & 22 \end{pmatrix}$ 9) If A is a matrix of order 3 x 3 then value of |3A| = 10) Express the matrix A =  $\begin{vmatrix} 3 & -2 & -4 \\ 3 & -2 & -5 \\ -1 & 1 & 2 \end{vmatrix}$  as a sum of symmetric and skew symmetric matrix. **CHAPTER 4** 1) For the given matrix A =  $\begin{bmatrix} 0 & 1 & -3 \\ 2 & 0 & -1 \\ 3 & 1 & 0 \end{bmatrix}$  find the inverse of matrix A. 2) Find the minors and cofactors of the matrix A =  $\begin{bmatrix} 3 & 3 & -1 \\ -2 & -2 & 1 \\ 4 & 5 & 2 \end{bmatrix}$ 3) Using matrices, solve the following system of equations : 2x + 3y + 3z = 5, x - 2y + z = -4, 3x - y - 2z = 34) Find the adjoint for matrix A =  $\begin{bmatrix} 4 & 0 & -1 \\ 2 & 3 & -5 \\ -5 & 2 & -3 \end{bmatrix}$ 5) Find the maximum value of  $\begin{vmatrix} 1 & 1 & 1 \\ 1 & 1 + sinx & 1 \\ 1 & 1 & 1 + cosx \end{vmatrix}$ 6) There are two values of a which makes determinant, A =  $\begin{vmatrix} 3 & -2 & -4 \\ 3 & -2 & -5 \\ 1 & 1 & 2 \end{vmatrix} = 86,$ then the sum of these numbers are? 7) Find the inverse of the matrix A =  $\begin{bmatrix} 2 & -3 & 5 \\ 3 & 2 & -4 \\ 1 & 1 & -2 \end{bmatrix}$  and use it to solve the following system of equations: 2x - 3y + 5z = 11, 3x + 2y - 4z = -5, x + y - 2z = -3 8) If A is a 3x3 invertible matrix, then what will be the value of k if det  $(A^{-1}) = (det$ A)<sup>k</sup> 9) If A =  $\begin{vmatrix} 1 & -1 \\ 2 & 1 \\ 1 & -3 \end{vmatrix}$  (1) A<sup>-1</sup>. Use it to solve the system of equations x + 2y + z = 4, -x + y + z = 0, x - 3y + z = 02 equation x - y + z = 4, x - 2y - 2z = 9, 2x + y + 3z = 1**CHAPTER 5** CONTINUITY AND DIFFERENTIABILITY

1. Differentiate 
$$\sqrt{tan\sqrt{x}}$$
 w.r.t x.  
2. Find  $\frac{dy}{dx}$ , if  $y = \tan^{-1}\left(\frac{3x-x^3}{1-3x^2}\right)$ ,  $-\frac{1}{\sqrt{3}} < x < \frac{1}{\sqrt{3}}$ .  
3. If  $y = \sin^{-1}\left\{x\sqrt{1-x} - \sqrt{x}\sqrt{1-x^2}\right\}$  then find  $\frac{dy}{dx}$ .  
4. If  $x = a \sec^3 \theta$  and  $y = a \tan^3 \theta$ , find  $\frac{dy}{dx}$  at  $\theta = \pi/3$ .  
5. If  $x^y = e^{x\cdot y}$ , prove that  $\frac{dy}{dx} = \frac{\log x}{(1+\log x)^2}$   
6. Let  $f(x) = \left\{\frac{1-\cos 4x}{x^2}\right\}$ , if  $x < 0$   
a , if  $x = 0$   
 $\frac{\sqrt{x}}{\sqrt{16+\sqrt{x}-4}}$ , if  $x > 0$ , for what value of a, f is continuous at  $x = 0$ ?  
7. Find  $\frac{dy}{dx}$ , if  $y = x^{\tan x} + \sqrt{\frac{x^2+1}{2}}$   
8. If  $x = \sin t$  and  $y = \sin pt$ , prove that  $(1 - x^2)\frac{d^2y}{dx^2} - x\frac{dy}{dx} + p^2 y = 0$ .  
9. If  $x^m \cdot y^n = (x + y)^{m+n}$ , prove that :- (i)  $\frac{dy}{dx} = \frac{y}{x}$  d (ii)  $\frac{d^2y}{dx^2} = 0$ .  
10. Differentiate  $\tan^{-1}\frac{\sqrt{1-x^2}}{x}$  with respect to  $\cos^{-1}(2x\sqrt{1-x^2})$