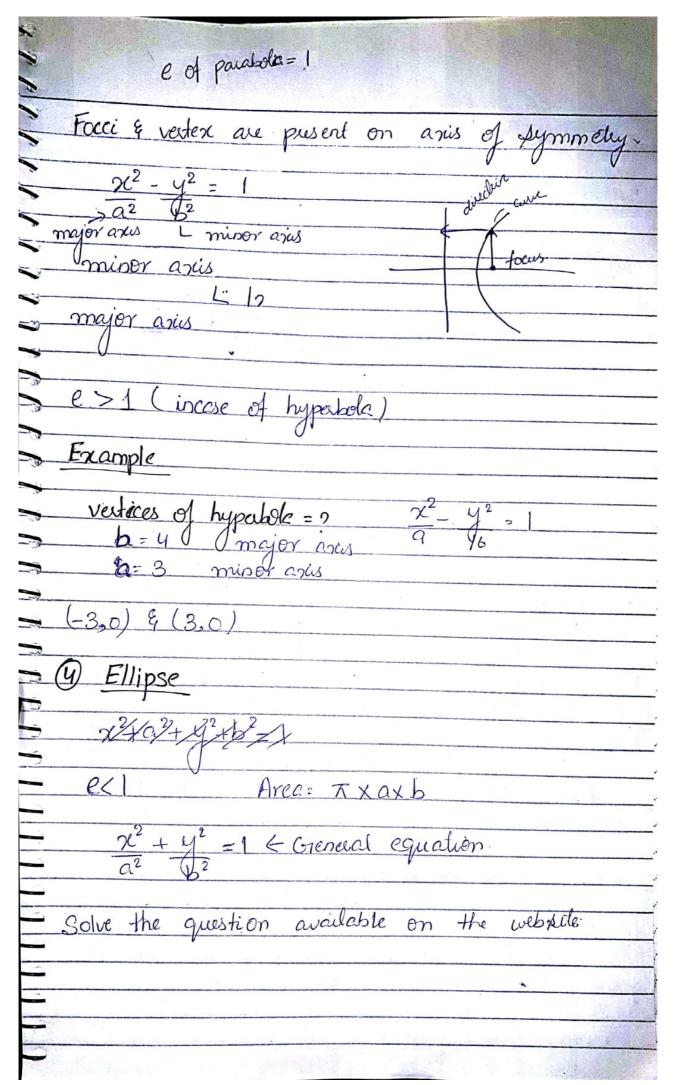
Syllobus	
20 marks	
QI TRANSFORMATION (P.	
QI TRANSFORMATION (PIVOT POINT) Q2 2D Transformation	
Q3 Theoretical (Transformation, Polygon	filling clipping
	TBRL)
def of tilling	og apply
0 0 1	pelydon filling
	()
LEGURE NO 15	
9 05 10	
Terminal Syllabus.	1 2 2 4 4
5 marles	
(definite) - Parabole - hypert	pola - ellipse - circle
Do ma riph	
	lying cure - bazier
4) Projection	Reflection Model)
o) Ashman and I	<u>↓</u>
5) MATION (11 hules of anima	uon
Projection	
How to Project 3D object in a	OD lama.
How to Project 3D object in a - Parallel Projection	x percen
3	
A.	
2	84
Δ	
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The state of the s	
1505,000 115 16	
LECTURE NO 16.	www.mathistun.com/
3-05-18-	geometry
Curves	
Parametric Curre	Non Parametric Curre
- Parameters are known	e.g
1- Formulas are known	- Spokine Supline cure
- au known as definite	- theim de carre
- Conic- Circle-Parabola.	- Mana are also known
- hyperbola-ellipse	as indefinite cures.
<u> </u>	- Parameters are unknown
	in this case
- PARAMETRIC CUIVE	5 Marks
Cones	Base
- Flat base	
- Axeas MXXXXX	S= side length
- Surface area = TXY * (Y+S)	yes
- Base area = πr^2 - Side area : $\pi x x x x s$.	
- Volume = 1 Tr2xh.	
3	
- Example	
- k=8, U=6	
3	E CONTRACTOR DE LA CONT
$= \frac{1}{3} \times \pi \times (6)^{2} \times (8)$	
The second secon	
- 12 - TXXXXS: 96F.	
2	L.

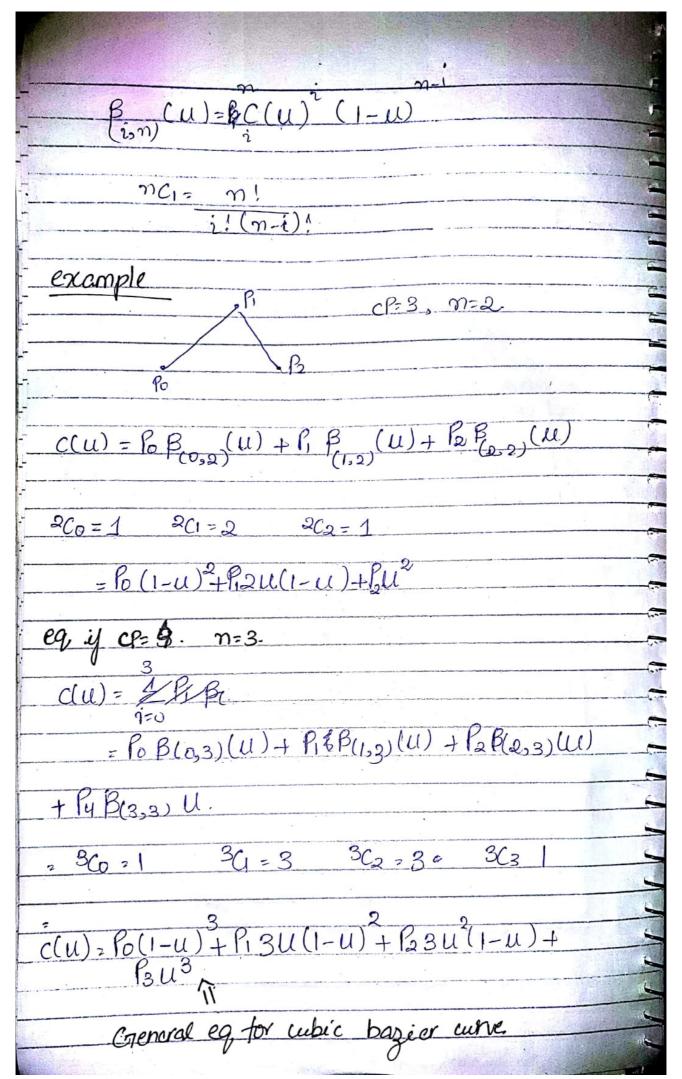
Surface area	
TANALUS) TXYXS	
Sujeu area of side = TXYX 1 r2+ R2	
=	
Example h= 24 cm	
d= 14 cm.	
1 x 22 x 49 x 24 3 7	
= 1232 cm ³ .	
	um ference
T= Circumference diameter. C= 2xxx A= xxx Circumference = distance walked.	
C= 2XXXV A= A= XXXX	
circumference = distance walked.	

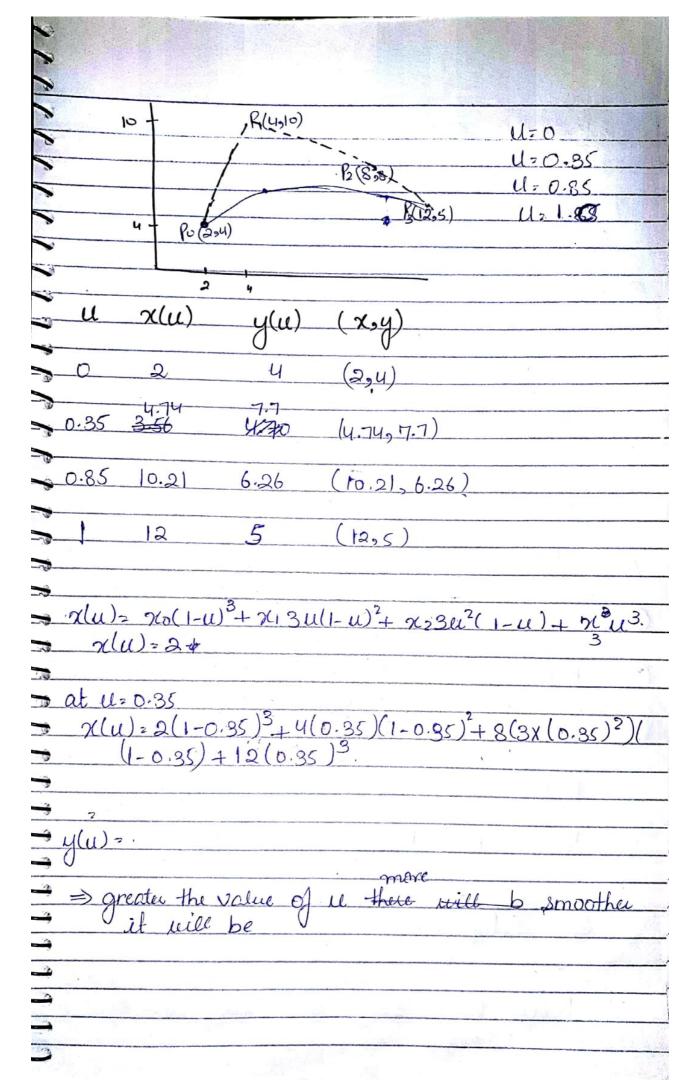
3 Parabola distonce between directorise.	(0)
y = yax	
olivretrix (Line)	
axis of symmetry symmetry	
Focus,	
point	
is known as assus of symmetry.	
distance between duectrix & vertex = obstance between focus and curve	
42= 40x y2= -40x x2= 40y x2= -40y	
3 Ellipse	1
cures are same like parabola	c c
, fron forci	2 /2
eccentricity e	1 2
ratio between two distance	1 1 1
ez four-cure curve-directrix	



LECTURE NO 17.
9-05-18.
imus dessic:
DAZIER CURVES-
spline
spinispecial type of spokene cure and approximative
Persong through
control pour
P2 interpolative control point
but must not pers through
- controls through control point but must not peus through control point (4 rominative control point)
ii) approximative suppline curre.
- 117 apportunite supportu cuci.
iii) ue get n- degree polynomial from n+1
control point.
Polypomial:
equation like $P(x) = a_0 x^2 + a_1 x + a_2 x = -$
degree max power of polynomial.
guestaic guestaic
P(1/2)= 1/3+276+1 P(20)= 7/2+47+4
degree = 3. degree = 2.
degree= 4 = quantic polynomial
iv) It is a parametric curve. (Some parameters are involved in alrawing that control.
prints) are drawing that control.
range = 05U51
1 parameter

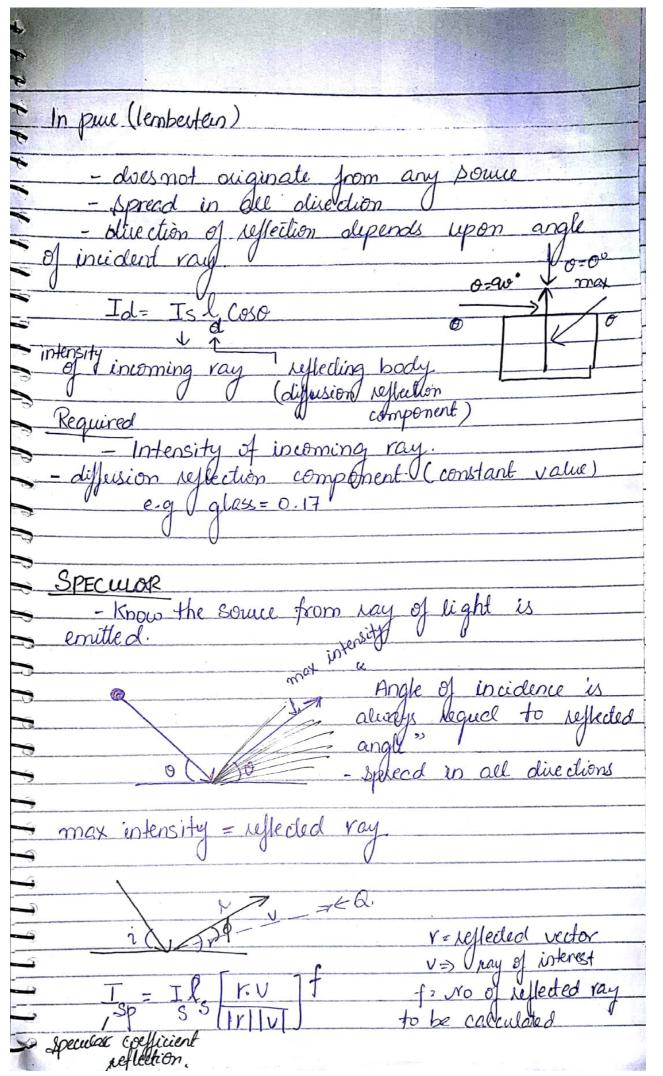
V) Camcat, blender, unity all graphic designer software uses bazier curve.
Derevation
OCUCI DI DIWPOFPI
peremetric eg, for ao 80 an Bi= point Bis Bis
$Q_0 = (1-u)f_0 + uf_1 \qquad c = pt b f w$ $Q_1 = (1-u)f_1 + uf_2 \qquad Q_0 \neq Q_1$ $Q_1 = (1-u)g_0 + ug_1$
= C(u) = (1-v)[(1-u)Po+UP] + N[[1-u)P1+UP].
$= (1-u)^{2} + u(1-u)R + u(1-u)R + u^{2} + u^{2} + u^{2} = 0$
C(u) (1-u) B + 2ull-u) P1 + u P2. Eq, for Bazier Brander controlling Curie Brands bazier www.
- Po, P, & Po: control point.
Greneral eq of Bagier curve. n/ degra of polynomial C(U) = S Pi B (U) 0 < U < 1 i=0 (in)
Blending function of
Contain subprope geometric function.





P(u), mci(u)i(1	u)	
da		
4C0 = 1 4C1 = 4	402=6 403	= 4 4 4 4 = 1
C(U) 2 Po(1-U) + 4 dl(1- + ly U4	u) + 6ll (1-ll)	+ 4 u 3 (1-m)
when 11=0.35	U1=0.65	u= 0.9
>c(u) = 5.98	10.78	15.71
y(u)= 9.34	9.07	5.86
×(u): 12.56	13.38	11.65
-	>	
		
7		
-		
-3		
-3	1	
7		
-3 -3 -4 -3		
<u></u>		
7.		5
ALEXANDER DE LA CONTRACTOR DE LA CONTRAC		
4		

LECTURE NO 19 16-05-18 Lighting And Shading. When My of light stike the object. Reflect => mirrors Reflect => mirrors Reflect => black body. Phong when we want to look for the lighting effect of components of Reflection diffusion. Leonoponents of Reflection diffusion special specular ambient Candela (cd) und of intends of light Diffusion. (Leonbeatelin) Reflection which we don't know the source of lightning such reflection are known as adjustion (dentheadein) I - cannot calculate an angle. Species - Specular e forward forward like sun light in the source of seffection which we know the source of reflection (lightning) Ambient phenomenon Ray emil from natural sources like sun light in the source of the source of seffection value an object is blocked. DIFFUSION - reflect in all objection - Autording to will of physics few of energy is aborbed		
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- used in softwares where we ward lighting and Shading effects.	to add
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