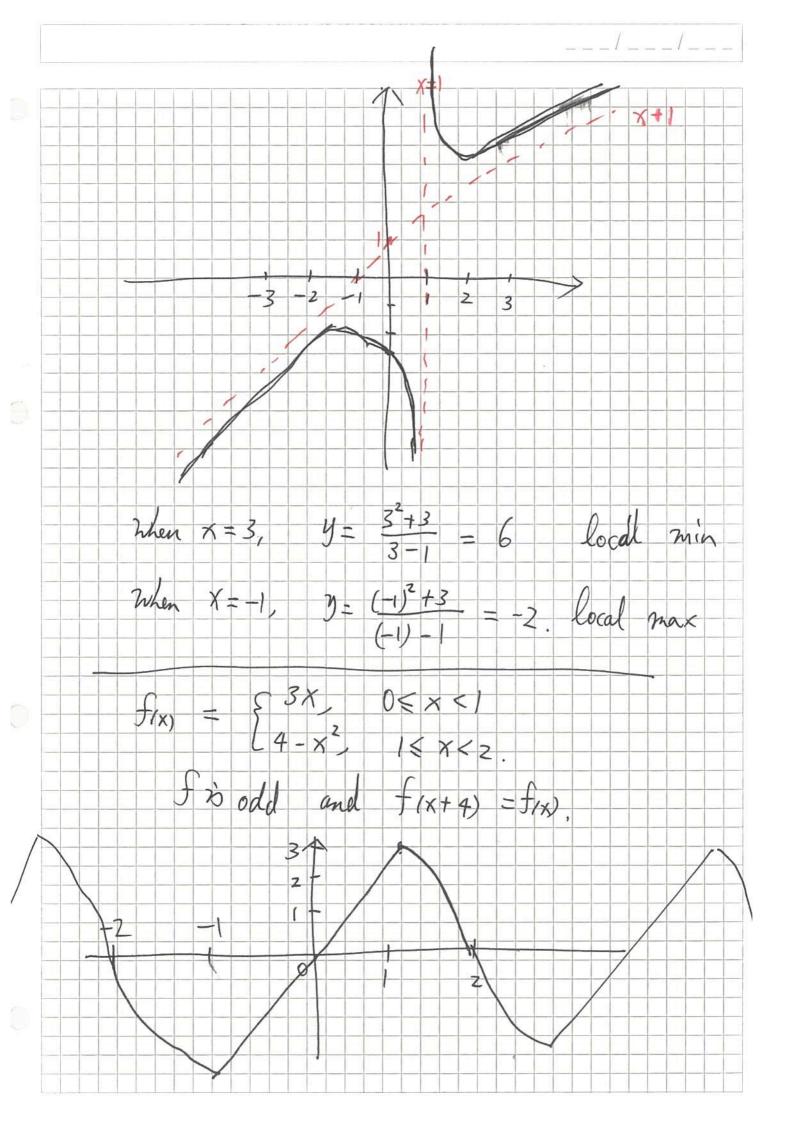
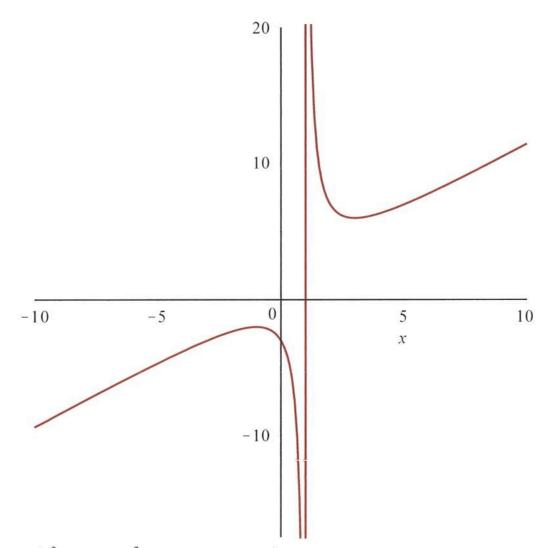
y= -	7 ² +3 7 -1	3'=	$2x(x-1)-(x^{2}+3).1$
Pamain:	R \ E13		$\frac{2}{x^{2}-2x-3}$
Range:	R (-2	(6).	$= \frac{(x-3)(x+1)}{(x-1)^2}$
70 X	0		
	- intercept even or	· y = -	.3.
Ver		symptote	al X=1.
	hori Zontal	asymptole	2,
y= x	2+3 = x	+1 + 4	
X-I J X	+1		
X	2 - ×	obl	que aymp tote 1 = x + 1
	X +3 X-1		
Stationary	gts at	X = -1,	X = 3,



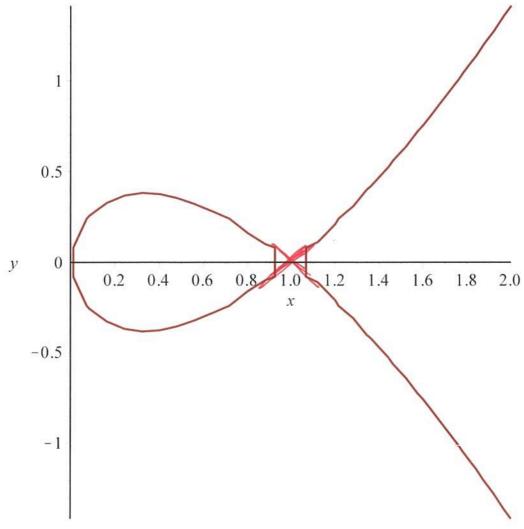


implicit plot
$$(y^2 = x(x-1)^2, x = -2..2, y = -2..2)$$

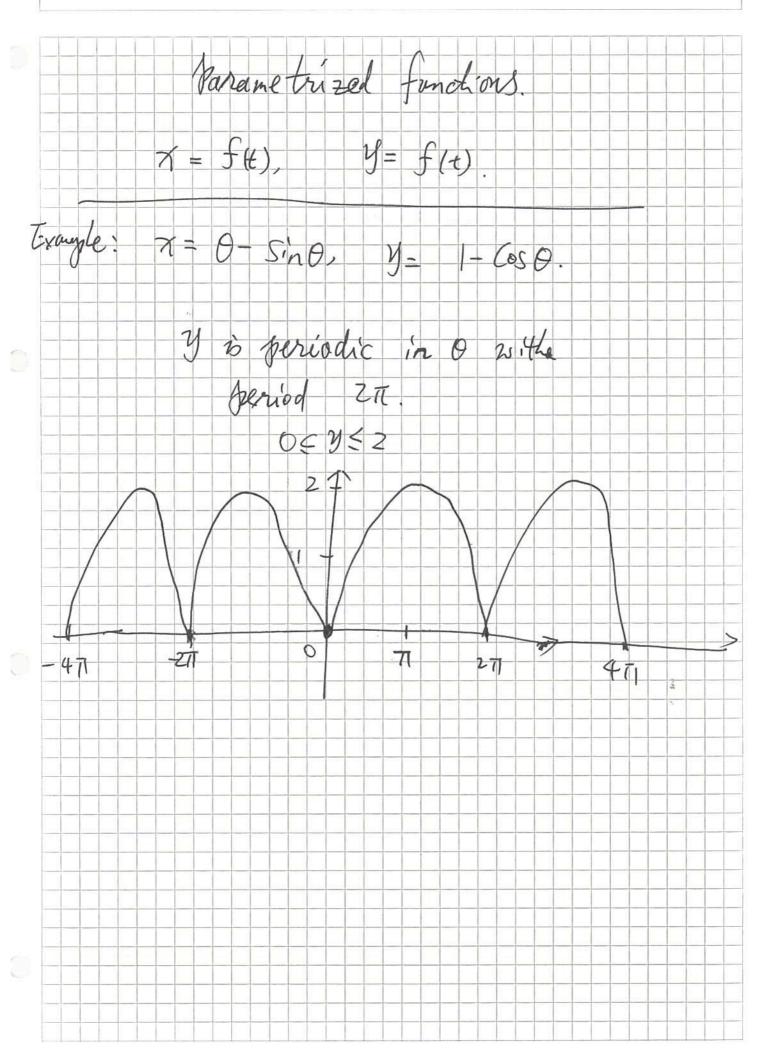
implicit plot $(y^2 = x(x-1)^2, x = -2..2, y = -2..2)$ (5)

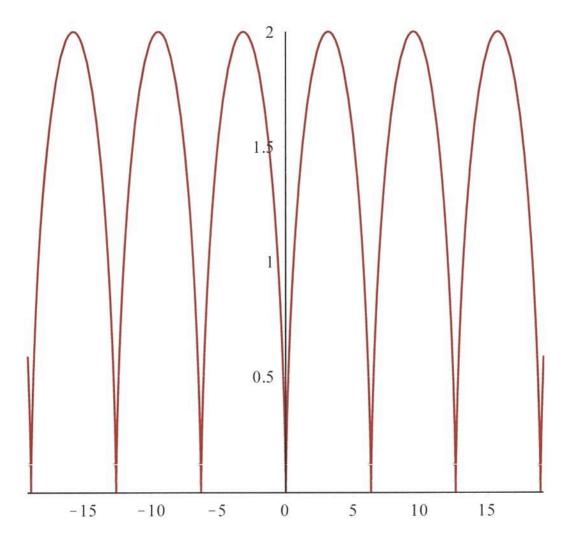
with (plots, implicitplot)
$$[implicitplot]$$
implicitplot ($y^2 = x \cdot (x - 1)^2, x = 0..2, y = -2..2$)
(6)

Emplicitly defined functions $y^2 = \pi (\pi - 1)^2$ the graph is symmetric about the x-axis y= /x (x -1) Pomerin X > 0, Range: [- 3, 00. x-intercept X=9 X= I - intercept y=0. no asymptotes no oblique asymptotes = x (x-1)2 zy. y = (x-1) + 2x(x-1) $= 3x^{2} - 4x + 1 = (x - 1)(3x - 1)$ Note when X-1 y = 0, $\sqrt{x}(x-1)y' = (x-1)(3x-1)$ Stationary. $y' = \frac{3x-1}{\sqrt{x}}$ y= 1x (x-1) y= x (x-1)2

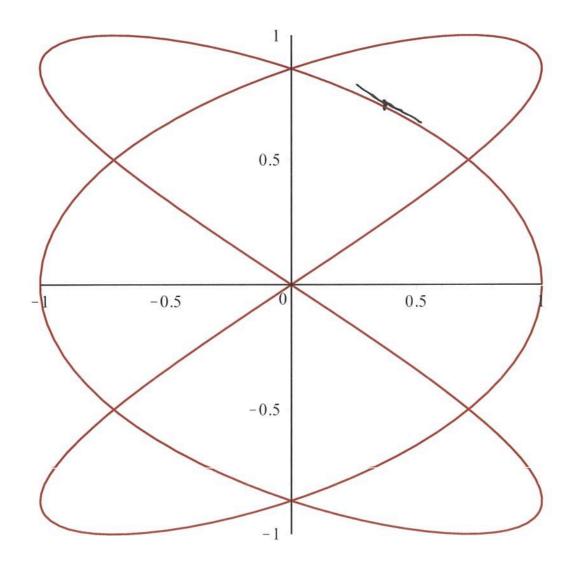


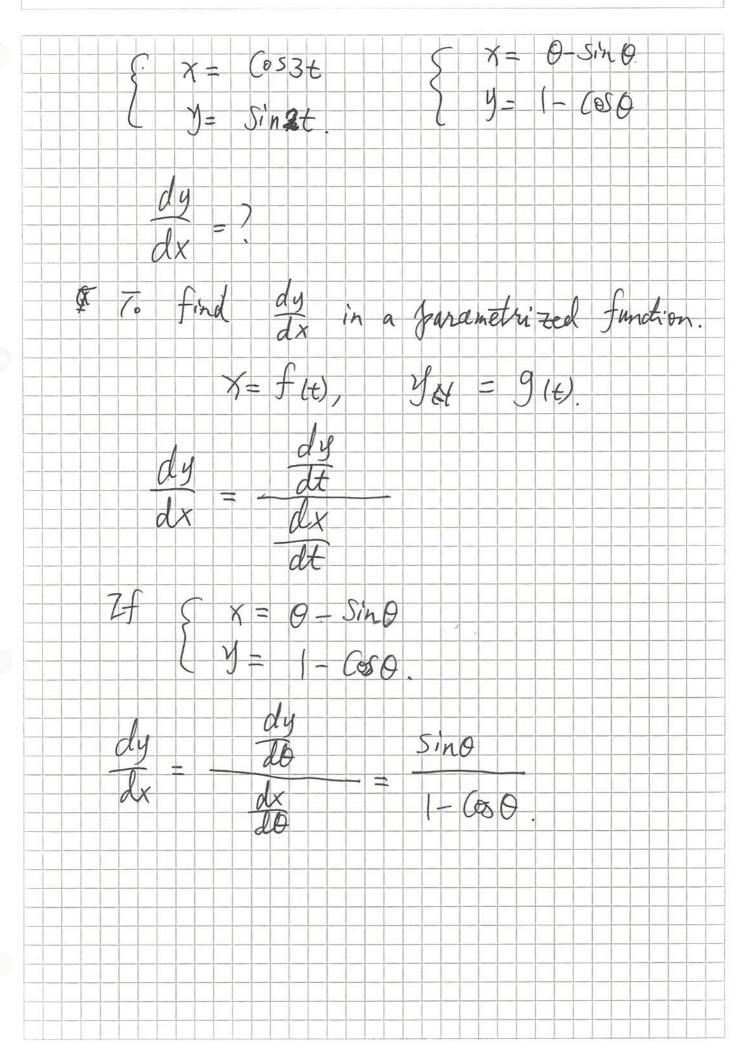
 $plot([t - \sin(t), 1 - \cos(t), t = -20..20])$





 $plot([\cos(3t), \sin(2t), t = 0..2 \cdot 3.14])$





Find dy dx	at,	t=1, fn the
x = - $dy = -$	3t 1+t ³ dy	$3t^{2}$ $1+t^{3}$ $6t(1+t^{3})-3t^{2}(3t^{2})$ $(1+t^{3}) = 2$
	dt =	$3(1+t^{3}) - 3t \cdot 3t^{2}$ $(1+t^{3})^{2}$ $-3t^{4} + 6t$
When t:		