





D. Nonvertical lines intersecting elleptic curves.	
•	Fave_&
Let $L = \{(xy)   y = mx + d \}$ be a line.  (not vertical)	TO \$ GLE(X) = fE(X, mx+d) As -4 double rout
(not vertical)	16 10 JUE TEVI, MINTO NO TOUR
	iff LA [xo, nxotd) & tangent to Els.
$f_{E}(\chi, mxtd) = -\chi^{2} + m^{2} \chi^{2} + (md - \alpha)\chi + d^{2} d$	1-911- (000) 2-12 201 × 2 6 (1) - ( (1))
<u>-</u>	り果じま (メリン) カニ(3)、 和とかるらじょ(y) = fe (44)
deg (fE(X, mxtd)) =3	bb dauble root iff L' Æ (C, yo) & Etangent to Ess.
	↑ /
C) LAEL \$3	
. 11.	
E 1 0	
Fact B	
if O L={x,y/y=mx+d} FA vartical bb,	
②[LNE] 》2 (此对有三个交点)	
那么fe(x, mx+d)要在3个IA nots),	
那么 te (X) MXTO) 安元和 ET TO 15 TWOS)  要在 12 T note 其中 17 的multiplicity=2)	
第24 121 MOBI 其中 17 BOM MOTHUNG 2	
Le (MA) A do trangent line)	