Vasavi College of Engineering B.E. II-sem (2021-2022) SUL: DIFF. EGINS. & VECTORCAL. I-Internal Examinations KEY & SCHEME OF EVALUATION The factor which when multiplied to

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If It is its own orthogonal Traj family.

Put D=-22 L>(IH)

Proposed

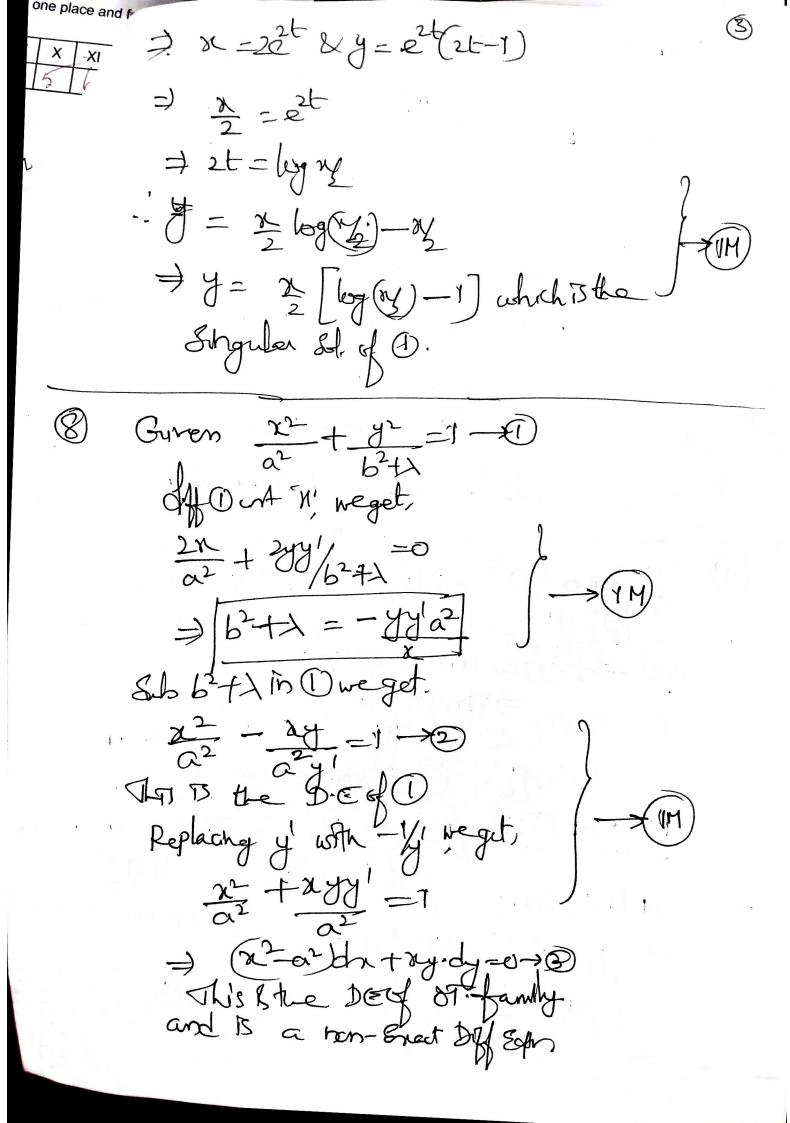
Propo $P.I = \frac{1}{D^2-4} \frac{Sh2x}{Sh2x} = \frac{1}{8} \frac{1}{8} \frac{1}{100} \frac{1}{100}$ A different is said to be Linear it of the dependent van. With derivative is occurs in the dependent van. With derivative with occurs in the different vanisher of dependent vanisher in the eight of dependent vanisher in the eight

AE=fm)=(m2+1)2(m-1)=0 ⇒ m=±i,±i,1 -, yc= (G+GX) COX+(G+GN)SINN)+6ex. PARI-B Given y= oy-et -0 = y + e²y'

put y = > x = 1 y + e²p → 0

dif 0 w + y' neget, | 2 p | - 2 / 2 dp/ J= 1/4+1/2 e2Pdp/y- 8/p2dp/y- 1/22dp => 1/p2 (2pe2p-y-2p)dp=0 =) Either dy/dy=0 or /p2 (2pe2 -y-e2)=0) +20 when diffice: on Integ weget, bec =>y'=c

put y'=c in (1) weget. y=xc es which to gen-sol of 0 / SiH when 1/2 (2per-y-er)=0: y = e²f(29-1) 81b y'in O we get, x=2e²f



Sub. c' in 3, we get I= L R2+1202 [RSinut-want] QL et RAJL2 Guren (D2-1) y = 2 11tex -, yc = (1ex + 5ex - 2) Here le=ex, V=e 'Acyer + Boye where AONE. - (Va) rollin= A(x) = = + log (1+en) Ba)= (ua) my du BR)= (ex x · 2 dr The Complete od By = yeth