1 | UXV = |u| IV Sino = 3×5× Sim96 81 000 = 1,150 police probable 0=90 as u and V are cothagonal UXV is ostrogoral to u tixu is ostrogoral to v a sustan anular a N-Coordinate >0 y-coordinate = 0 3-coordirate >0 tone Is solvenia as kinteria more 2) transported at the throng (30-18)-2(92-6)+2(92-0)=0

Given 101=252,101=252 |u-v|= 25 (u+v) = ? , (ū, v) = ? 14-V1 = 1 42+V2 aux coso > 25 = \ (25)^2+(25)^2-2(25)(25) (25) = 252 = 18+8-16 COSO = ,176-16 (050 =) 252= 4/1-600 => 18 = 16 (1-10so) => C650 = 1-1/2 = 1/2 U+v = 1 4+v2+ 2 uv coso = 1 (252) + (252) + 2(25) (26) (0565 = 18+8+2(8)x= = J24 = JAX6 = 256 O=11/3

18 00=101 -10x4 Row cettler form has multiple proprenties. PAII the leading entries 1 3 2 in each of the rows a 6 2 of the mothix ax 1 0 9 5 By a column contains a leading entry then all edits below the lading entry are 300. · · a=0 (b) For what values of a 18 the modar singulari? A aguare modrix is singular it and only it its detarminant is zero. => 1 (30-18)-3(ga-0)+2(qa-0)=0 12-15a+18a = 0 12+32=0