CH 12.2 Homework 10/16/2018 Lyell C. Read 21-37 元人-3,6,1> 2-3x+6y=18 Plane 21) f(x,y) = 3x - 6y + 18 = 2D: R2 y cross: 6y=18 Z WOSS: 2=14 x cross: -3x=18 Y=0, 2=0 x=-6 R:R-X=0, Y=0 x=0, ==0 4=3 23) f(x,y)=x2-y2 x 22) fly = 2x2+342 = 2 (in the XZ plane, y=0 (in the YZ plane X=0 (Range: IR Range: IR) [Domain R2 Domain R2] In XZ Plane, Y=0) IN 42 Plane x=0 F(x,y)= V1-x2-y2 25) - VI+ x2+ y2 = f(x, y) 24) (In the XE, Y=0 } IN YZ , x=0 semicircle Y (Range fER: 05 fel Domain (x,y) ER2: (x2+ y) =1 in the xZ, Y=0 14 the 45 \$ X=0 Range FER: -1=f 24) F(x, y) = \(X^2 + Y^2 Doman (x,y) ER2 27) Hx,4) = 1x2+42-1 (Range: fER: f=0 XZ / Doman: R2 Range: fER: f>0 Domain: (x,y) GIR2: (x2+42) 41

