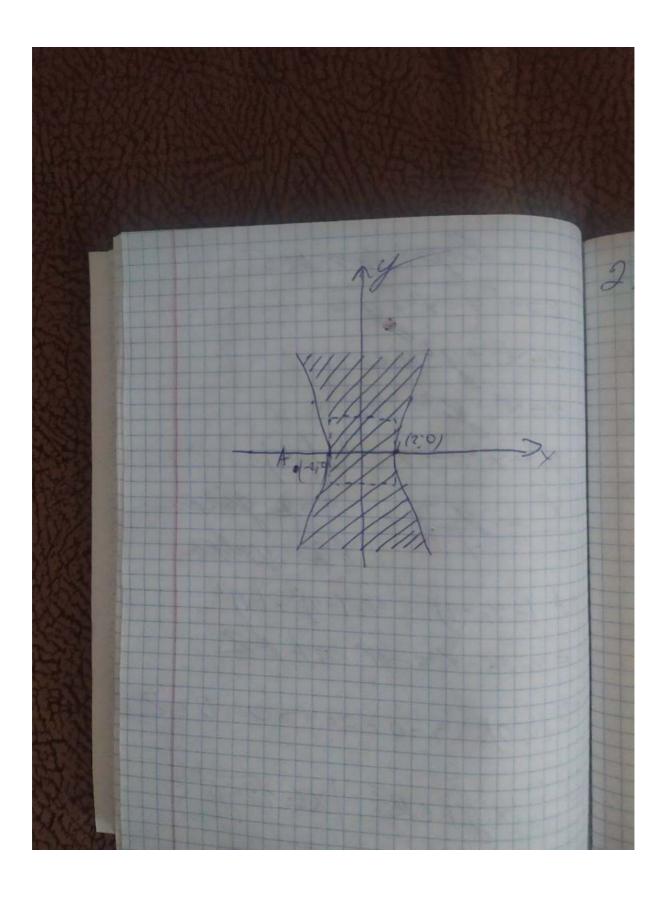
4-x2+y220 4-12-0 y2-x2=-4 1: (-4) x2 - y2 - 1 a - 2 ginska 4 - 4 - 1 b-2 yalpo 7. A (-4;-1) 4-(-4)2+(-1)2= =4-16-1=-11 TA &Z TO (0,0) 4-0+0=4>070EZ 2 { (x:41 cR2. | X = 14+928





2 x = y x+1 (hy 1 (x+1))= lng.yx+1 2/2= (x+4) yx=xyx+yx Zxx = gx+1 hy hp (x4) = hzy gx+1 Zyy= x. xy x-1 + xy x-1 = x2y x-1 xy = y y + / hy (x+1) hy = = + hy. · (++1). yx

4 4=x23+Jy3 a (-5; 12;0) U = 2x 23 + 0 = 2x 23 4y = 34 - 34 - 379 - 379 4/2=322×2+0=3×22 fm)=2.2.43=44=256 1 fy (M) = 3.2 - 3 1 /2 (M) = 3.22.42 = 43,3 = 192  $\cos \zeta = \frac{-5}{12^2 + 5^2} = \frac{-5}{13}$ COSB - 12 - 12 1/2+521 - 13 cosy = 0 = 0

 $\frac{2400}{20} = 256 \cdot (-\frac{5}{5}) + \frac{12}{13} \cdot \frac{3}{121} + 0 = \frac{36}{1312} - \frac{1280}{13} = \frac{18127 - 1280}{13}$ a) fx (m)=256 Py (M)= 3 P'z (M): 192 grad (1-5; 12; 6)= 2561 +3 + +9ck golden F

5- z= 5+12x-84-3x2-242  $z'_{x} = 12 - 6x$  x = 2 (2,2) 2y' = -8 - 44 y = -2 (2,2)Z'x=-6 Z'y=-4 Z'y=0 B=1 |-6 0 |= 24>6 Zmin = 5+12.2+8.2-3.2-2.1-23-25 T(2,-2) - localesca expres 3(x2-4x44)+2(92+44+4)=25/8 Formo I

