1/2 | 3 | 4 | 15.5 /20| David

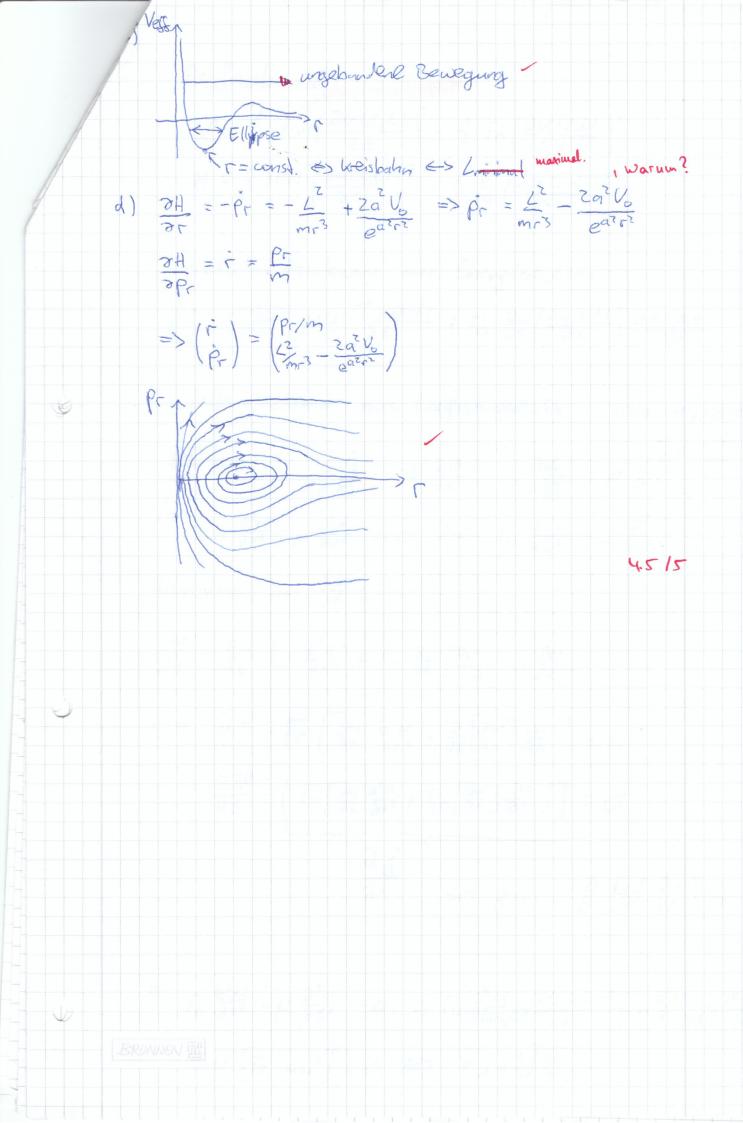
1,5/3,5/4,5/4

els = ex = a dis = ex loss Aufgabe 251 a) far=ex
gw=ulna-u nonvex (cle ex 20 Six bl S(x1(x2)=x12+x22) H= (20) 270 = 200. eleg. Un = 2x, (= 2x, = 2 U2 = 2 ×2 (=> ×2 = 2 $e(u) = \frac{cu^2}{2} + \frac{cu^2}{2} - \frac{cu^2}{4} - \frac{cu^2}{4} = \frac{cu^2}{4} \times \frac{cu^2}{4} = \frac{cu^2}{4}$ = 4 [ch2 + ch2] () $\int (x_1 = x^3) \int (x_1 = u = 3x^2) = 2x = \sqrt{3} = 2x = \sqrt{27}$ g"(v) = 6x für x E IR O konvex / kondax eflet! = J37 - V == 2002 ode überall konhav sein! Coneute Traf = x neu berechnen druvier & f(xil- E diti-glui) f(x1=xe*-e*ln(e*)+e* =e*() b) rusich S(X) = ch(x1x1+cl2(x21x2-(ch(x12+c12(x2) = 2 K1 2 + 2 K2 - (K1 + K2) = X12 + X2 V (V) $f(x) = u(x|x - \frac{2u(x)\partial u(x)}{3\sqrt{3}}$ 3.55 C/ rewick

26) b) Es wind verein fachend angenommen, dass m, = m2 = m ; k= l2 = l -X = lsing x = lsing + loin p 4= 1008p1 42=1008q1+1008p2 = cos(page) L=T-V = m12 (2 cp + p2 + 2 cp cp (cos cp, cos cp + sin cp sin cp2) + mgl (2cosp, +cosp, -3) kanndwich kanonische Eit-trato vernach lässig C) [OL = p= m(2 (2 ép, + cos(q, - q2) ép) ~ II. DL = P2 = m13 (\$\frac{1}{2} + cos(\frac{1}{2} - \frac{1}{2})\frac{1}{2}) In ans I: & = P1 - P2 cos (P1- P2) Ta: ans II: 92 = P2 - \$\varphi_1 \cos(\varphi_1 - \varphi_2) aus Ia in Ter und Jain Ia: 9, = - P2 cos (9, - 92) + P1 2 m (2 (2 - cos2 (91-92)) 92 = 2 P2 - P1005(Q1-Q2)

H= Pr-PrP2cos(9,-92)+2pr-PrP2cos(9,-92) m (2 (2 - co 5(P) D) - ml2 (2(p2-2p1p2cos(q2-q2)+p2cos(q2-q2))2 + 4p2 - 4p1p2 cos (2, -92) +p1 cos (91-92) +2(2P1P2-12) COS(91-92)-2p22 COS(91-92)+P1P2 COS(91-92)cos(9 m2(4(2-cos2(q+q2))2 +mgl (2008 9, +005 92) = Pi+2pi-2papicos(Pa-Pi) 4 mg((2cosquecosque) \$ 91, \$2 s. Vorderseite p=-p1p2 sin(q1-q2) , sin(q1-q2)cos(q1-q2) m(2(2-cos2(q1-q2)) m(2(2-cos2(q1-q2)) ml2 (2-cos2(92-42))2 (pr²-2prp2 cos(qr-q2)+2pr day ist now de 2mgl sin (r) P2 = - Sin(Q1-42) WS(Q1-42) (P1-P1P2 WS (41-92)+2P2) ml3(2-cos2(4-42))2 + Papasin(91-42) -mg(sin 42 3,5/5 Wenninhelvakening: ig = P1-P2 , ig = 2P2-P4 v P1 = (4-42)(P2-36-P2-2P2) - 2mg(4, (-) P2 = (41-42) (7(P-P2)-(P3)+2(P2)) #ongl 42 2 - ng(42 (V) Louis Fealt.





Aufache 28.

$$\mathcal{L} = \frac{1}{2} \mu(x) \left(\frac{\partial u(x,t)}{\partial t} \right)^2 - \frac{1}{2} F_0 \left(\frac{\partial u(x,t)}{\partial x} \right)^2$$

$$\partial = \frac{1}{2} \mu(x) \left(\frac{\partial u(x,t)}{\partial t} \right)^2 + \frac{1}{2} F_0 \left(\frac{\partial u(x,t)}{\partial x} \right)^2$$

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$$\partial = \frac{1}{2} \mu(x) \left(\frac{\partial u(x$$

 $| F_0 = \frac{\partial^2 u}{\partial x^2} - \mu = 0 = F_0 = \frac{\partial^2 u}{\partial (x - c_1 \epsilon)^2} = \frac{\partial^2 u}{\partial x^2} = \frac{\partial^2 u}{\partial x^2$