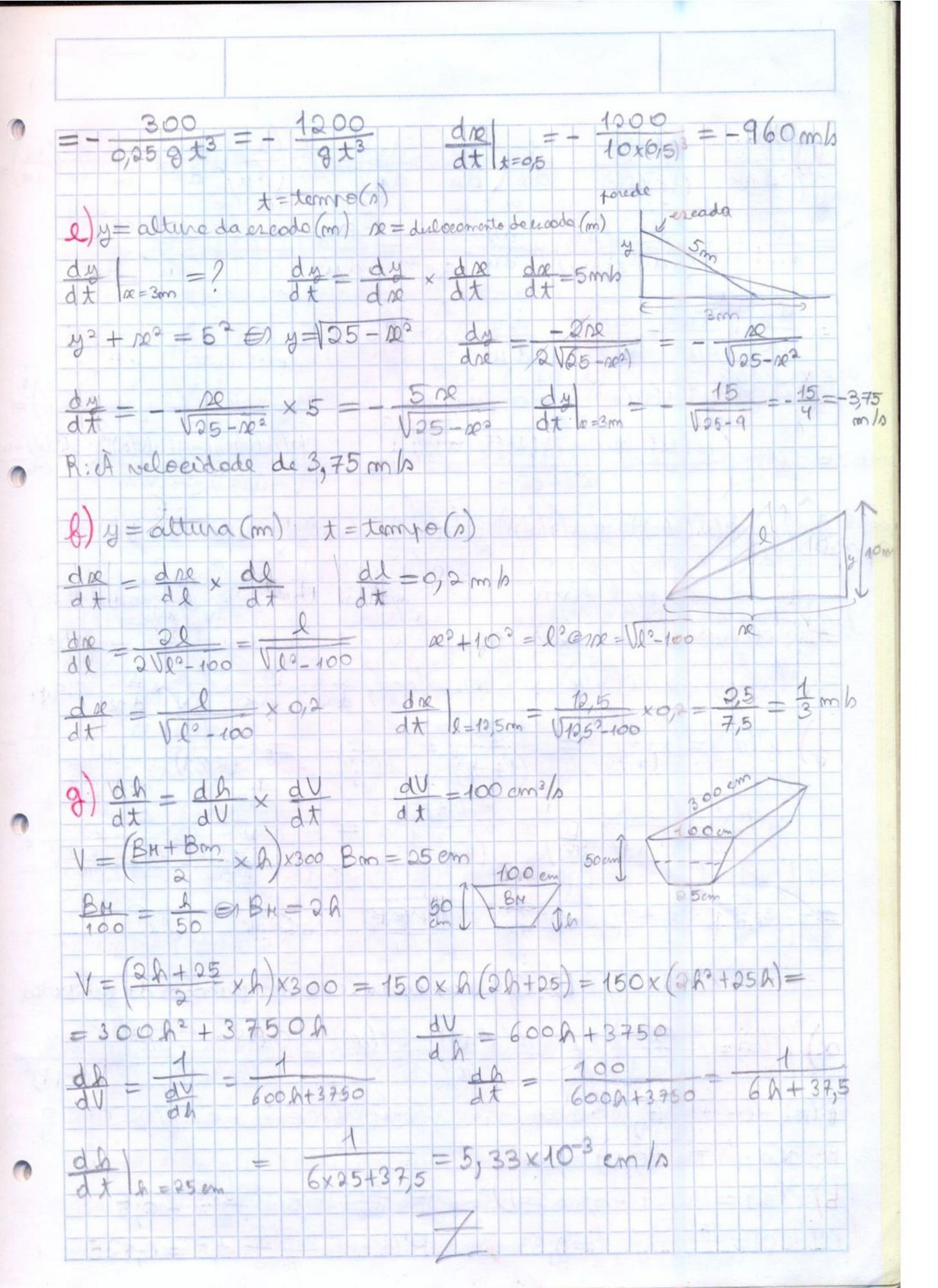


caso particular (V=2m3) dt = 1 x = = = = = = e.q.p. dV = 3/1227 A = area super bicial (m2) t= tempo (s) A=41172 $\frac{dA}{dt} = \frac{dA}{dD} \times \frac{dD}{dt}$ $A = 4 \text{ Tr} \left(\frac{D}{2}\right)^2 = \frac{4 \text{ Tr} D^2}{4} = \text{Tr} D^2$ $\frac{dA}{dD} = 2 \text{ Tr} D = 2 \text{ Tr} \frac{3}{12} = 2 \text{ Tr} D = 2 \text{ Tr} \frac{3}{12} = 2 \text{ Tr} D = 2 \text{ Tr} \frac{3}{12} = 2 \text{ Tr} D = 2 \text{ Tr} \frac{3}{12} = 2 \text{ Tr} D = 2 \text{ Tr} \frac{3}{12} = 2 \text{ Tr} D = 2 \text{ Tr} \frac{3}{12} = 2 \text{ Tr} D = 2 \text{ Tr} \frac{3}{12} = 2 \text{ Tr} D = 2 \text{ Tr} \frac{3}{12} = 2 \text{ Tr} D = 2 \text{ Tr} \frac{3}{12} = 2 \text{ Tr} D = 2 \text{ Tr} \frac{3}{12} = 2 \text{ Tr} D = 2 \text{ Tr} \frac{3}{12} = 2 \text{ Tr} D = 2 \text{ Tr} D$ dA = 2m 3 12 x 2 = 4m 3 12 m = 4m x 12 m = =411 X V 10 112 = 4 3 11 = 4 3 12 e.9.P. e) V= voluerre do con e (em²) t=tempo (s) h= alturo (em) n=naio (em) dh = ? Regio da Gadera: dh = dh x dv dt 200% dt = 2 em3/s V= = = A enex A A ene = Tr2 A = Rh V = \frac{1}{3} \times TT \times \left(\frac{RA}{H} \right) \times A OD V = \frac{TTR^2 \h^3}{3 H^2} \frac{dV}{dA} = \frac{TTR^2 \h^2}{3 H^2} \times \frac{A}{3 H^2} = \frac{TTR^2 \h^2}{H^2} Delo teoremo da função inversa: TT R2 A3 1 = 0,5 01 A = H dA = 0H2 = 8H2 = TR2 H2 = TR2 em /s. d) D= altera da lola (m) V= velocatode tempo (s) m dr - dr x dr s = 0,5 g t = 0,5 g x 2 t = g t 20-50 = (20-1)(10+15) = 100=2010+300-10-150MH 15 = 1 x = x (30-0) +300-130 = 120 x - x (30-0) = 300-150 = 1 (00-20+0)=300-150 e10=300-150 e10=300-150 dr = -300 dx = -300 gt = -



droz da) = d (dr du du) = d (dr) du dr dr dr dr dr dr dr dre (dr) = du (du) (du) + dy du = dey (du) + dy du = du (du) + dy du = = dy x du + (du)2 dy e.q.p. i) Leja y (u(v(xe)) uma fumeso regular: (you ov) = y (u (v(xe)))= y(u(v(e)))-y(u(v(a))) = lim (u(v(e)))-y(u(v(a))) u(v(e))-u(v) = lim = firm (4(u(v(a)))-4(u(v(a))) u(v(a)) u(v(a)) v(re)-v(a) = firm (u(v(a)))-u(v(a)), v(re)-v(a) × re-a 41 (u (v (m))) u'(V(re)) V (na) = y'(u(v(re)))x u(v(re)) x v'(re) nest