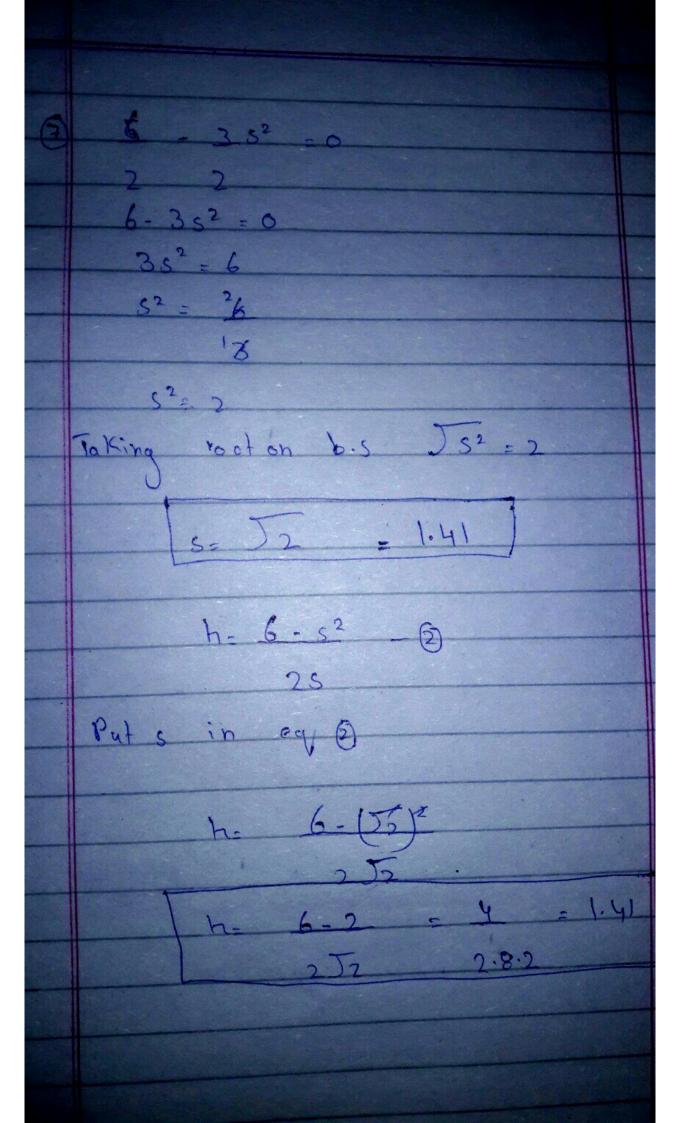
7,1 +3.5 pl -0.8 pr = 517 92 + 4.4p2 - 1.4p1 = 770 que queque R= PXq/ 91- 3-5p2- 0.8p2- 517 9,2- 4.4p2- 1.4p1 = 770 0 - 3.5pl -0.8p2-517 + (4.4p2-1.4p)-776 9/2 3.5p1 -0.8p2-517 + 4.4p2-1.4p1-77 R 2 P/ 3.5p1 · 0.8p2 517 1 4.4p2 - 1.4p1-77 3.5pt-0.8p2-517p+4.4p; -1.4pi-77q p1,p2) = (a) = -517 += 770. =0 2) = 7.p; -1.6p; + 8.0p; -2.8p; # P2 = 4.2 P1 + 7.2 P2

) x7 43 ds, (:x cos3: dx x(1)= 4(4) = sh3t : 0 40 = t= (10,53+)7 ( sin 3)3 = (00 (3 in 1) 2 / 3 cost) 2 - 3 six 9 cost gsint = Si 1/2 u du u= 9 sint 9 sint + 9 cost du = 95 int. 9005-+ 9 los 1/2)1/2 9 sint [1/2] 9 8 +9 18

REPETE xady + xyda. 11=0 ; OL t for dy = 3t out 2=6 x2(3/e3/) (2) 3 test (3fe3+)+ x(1)d. x2/3te3H

and Find the maximum volume of Maximum material used: Base Must be squar Maximum volume 3 maximising volume Quenstraint A= 12 = 25° + 4sh 4sh = 12 - 252 h. 18.752 - Xs h - 6-52 Put in h in ear - 0 V= 82 6-82 V= 65. 183



x (3-4x+4x2) = 9( 4x3-x 3x - 4x2 + 4x3 - 1x7 + x5 dx 7x3 + 4x4 -4(2)3+ 4(2)4 + 64 178 118 Ans

4x3-x4= 3-4x+4x3 4x3-x4-3+4x-4x2=0 4x2-24-3=0. Test (1)3-1114 =0

a dr dy 1/2 TXZY