Dual problem when the primal is in standard form. Paroblem: Construct the dual of the problem (18)Manimise Z = 32/+10x2+2x3 Subject to 2x, +3x2+2x357 $3x_1 - 2x_2 + 4x_3 = 3$ 21/20, x2/0, x3/0. Sol: Since the given problem is of Marinization, all Constraints Should be of type 5. The equation 3x, -2x2+4x3=3 Caube expressed as a pair of inequalities 3x1-2x2+4x3 < 3 and 3x, -2x2+ 4x3>3. of 3x1-2n2+4n3 63 and -3x1+2n2-4n3 63. . The primal problem becomes Marini 3e Z = 3x, + 10x2 +2x3 Subject to 22, +3x2 +2x3 <7 321-202+42363 $-3x_1+2x_2-4x_3 \leq -3$. Where 81, 22, 23 >0. It madastif let 4, 4, 4, 1 be the associated non-negative dual Variables. There the dual of the problem is Minimise W= 74, +342 -342 Subject to the Constraint 24, +342 - 342 >3 34,-2421+2421 > 10 24,+4421-4421 > 2, where 4, 42 and 42">0.