11	1	140
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Name: Siddharth Sheshadu Krishnan Net10: 5k3275 1. a) The standard material balance egn for conc. of MRNA Mi, and translated protein hi is m: = 8 x; ui - (u+ 0m; ) m; + 2: pi = 82, iDi - (M+ Opi) pi where i=1, 2, --., N where it is the intracellular dilution given by  $\mu = \beta^{-1}\dot{\beta}$ where B= XVR B= XVR + XVR BB VRVR + XX For a cell-free system, X 4 a or cellmans conc. in culture, =0

V2, 01 volume of culture, is constant.