

Attendance Quiz 6

Name: _____ Date : _____

1. A tank initially contains 100 gal of brine in which there is dissolved 20 lb of salt. Starting at time $t = 0$, brine containing 3 lb of dissolved salt per gallon flows into the tank at the rate of 4 gal/min. The mixture is kept uniform by stirring and the well-stirred mixture simultaneously flows out of the tank at the same rate.

(a) How much salt is in the tank at the end of 10 min?

(b) When is there 160 lb of salt in the tank?