

Quiz 2

MAT 265, SPRING 2017

NAME:

A 120-gallon tank initially contains 90 pounds of salt dissolved in 90 gallons of water. A saline solution containing 2 pounds of salt per gallon flows into the tank at a rate of 4 gallons per minute. A well-stirred mixture flows out of the tank at 3 gallons per minute. Find the amount of salt in the tank at the time it begins to overflow.