

1. 9
  
2. (a)  $x = 6.67$  g/kg,  $y = 13.33$  g/kg  
(b) 4800 g
  
3. (a)  $x_1 = 7.7$ ,  $x_2 = 14.3$   
(b) 46.06  
(c) 2.09