```
HW# 23 4.1) 48,52 4.2 4,10,12,14,20,22,30,32
48)a) N(t) = 320 (2t)
   6) N(8) = 320 (28) = 81,920 mice
52) P=2500, r=0.025, n=365 so, A(t)=2500(1+0.025)365t
  a) A(2) = 2500(1 + \frac{0.025}{365})^{365 \cdot 2} \times 2628.17 \Rightarrow \boxed{$2628.17}
   b) A(3) = 2500(1+0.025)365.3 x 2694.70 => $ 2694.70
   e)A(6) = 2500 (1+0.025)365.6 $ 2904.57 => $2904.57
4 \int_{1}^{2} h(x) = e^{-2x}
               h(1) = 0.135
              h(JZ)=0.059
              h(-3) = 403,429
              h(\frac{1}{2}) = 0.368
 10) f(x) = -e^{-x} g(x) = y = e^{x}
                                                             Domain: (-00,00)
                                                             Range: (-0,0)
                                                             asymptotes: y=0
    reflect g(x) about y-axis,
                                                (0,-1) f(x)
     then about the x-axis
 |2| y = e^{x-3} + 4 f(x) · ex
                                              (3,5)
    shift flx) right 3 units,
                                                        Domain: (-00,00)
                                                        Range : (4,00)
    and up 4 units.
                                                        Asymptote: 4 = 4
 14) g(x) = -e^{x-1} - 2 f(x) = c^x
      shift flx) right 1 unit,
                                                          Domain: (-00,00)
                                                         Range: (-0,-2)
      reflect it about x-axis,
      shift dan 2 units
                                                         Asymptotes 4 =- 3
                                           (1,-2)
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(4.2)