## HW8 Answers

 $\mathbf{p.319}$  #4. Since the unit of the air resistance is "pound", the equation reads

$$mv'(t) = mg - \frac{3}{4}v(t)g$$

where  $m=192,\,g=32,\,0\leq t\leq 10;$  similarly for  $t\geq 10$ 

p.320 #7. Answers on the book

**p.320** #8. Note that the temperature function is of the form  $y(t) = C_1 + C_2 e^{-kt}$ . Use the conditions to determine the constants  $C_1, C_2, k$ .