## HW8 Answers

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

$$
m v^{\prime}(t)=m g-\frac{3}{4} v(t) g
$$

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 $y(t)=C_{1}+C_{2} e^{-k t}$. Use the conditions to determine the constants $C_{1}, C_{2}, k$.

