Hw4

#3 (1) $\frac{1.7}{60}\text{hr} \times 7\text{ mi/hr} + \frac{15}{60}\text{ hr} \times 27\text{ mi/hr} + \frac{14}{60}\text{ hr} \times 40\text{ mi/hr}$

$= 16.28\text{ mi}$

(2) $\dfrac{16.28\text{ mi}}{\left(\frac{1.7}{60} + \frac{15}{60} + \frac{14}{60}\right)\text{hr}} = 31.82\text{ mi/hr}$

#5 (1) ① $2.125 + (-0.3472 \times 0.24)$.

$= 2.125 - 0.0833$

$= 2.0417$

② As $-2.125 = -2.125$

second derived should be 0

③ $\dfrac{2.125 - 2.0417}{1.68 - 1.44}$

$= 0.347$

(2) ① biggest positive 1st derived occurs @ $x = 0$ & $x = 1.68$

choose $x = 0$ (smallest) (A).

② biggest-absolute-value negative 1st derived occurs @

$x = 0.72$ & $x = 0.96$

choose $x = 0.96$ (E).