$$M_{1} = \{0.3510 + 2.1812 + 0.2415 + (-0.1096) + 0.1544 \} / 5 = 0.5637$$

$$M_{2} = 1.6843$$

$$M_{3} = -0.4793$$

$$M_{9} = 0.5740$$

$$\sigma_{1} = \left(\frac{1}{5} \left[0.3500 - M_{1}\right]^{2} + (2.1812 - M_{1})^{2} + (0.24(5 - M_{1})^{2} + (-0.1096 - M_{1})^{2} + (0.1544 - M_{1})^{2}\right]$$

$$= 0.8229$$

$$\sigma_2 = 0.3924$$
 $\sigma_3 = 0.9552$
 $\sigma_3 = 0.6469$
 $\sigma_4 = 0.6469$
 $\sigma_5 = 0.6469$
 $\sigma_5 = 0.6469$

$$+ (2 - 1812 - 14)(1-4392 - 14) + - - -$$

$$= 0.3188$$

$$cov(feature 2, y) = 0.1152$$
 $cov(feature 3, y) = 0.4949$
 $cov(feature 1, y) = \frac{0.3188}{0.8229 \times 0.6469}$
 $= 0.5988$