Spring 2013 Final - 1:00A

P2) +7 $Corr_{S,C} = \frac{COV_{S,C}}{SD_S \, SD_C}$ (7)

+7 $COV_{S,C} = \frac{+2}{3}((-18^{+1} - \bar{R}_S)(24^{+1} - \bar{R}_C) + (-47^{+1} - \bar{R}_S)(23^{+1} - \bar{R}_C) + (3^{+1} - \bar{R}_S)(7^{+1} - \bar{R}_C) + (73^{+1} - \bar{R}_S)(22^{+1} - \bar{R}_C))$ (17)

+4 $SD_S = \sqrt{\frac{+2}{3}((-18^{+1} - \bar{R}_S)^2 + (-47^{+1} - \bar{R}_S)^2 + (3^{+1} - \bar{R}_S)^2 + (73^{+1} - \bar{R}_S)^2)}$ (10)

+4 $SD_C = \sqrt{\frac{+2}{3}((24^{+1} - \bar{R}_C)^2 + (23^{+1} - \bar{R}_C)^2 + (7^{+1} - \bar{R}_C)^2 + (22^{+1} - \bar{R}_C)^2)}$ (10)

+4 $\bar{R}_S = \frac{+2}{4}(-18^{+1} - 47^{+1} + 3^{+1} + 73^{+1})$ (10)

+4 $\bar{R}_C = \frac{+2}{4}(24^{+1} + 23^{+1} + 7^{+1} + 22^{+1})$ (10)

+7 $SD_P = \sqrt{\left(\frac{100}{100+300}\right)^2 SD_S^2 + \left(\frac{300}{100+300}\right)^2 SD_C^2 + 2\left(\frac{100}{100+300}\right)\left(\frac{300}{100+300}\right) COV_{S,C}}$ (11)

+2 +2