

Due Tuesday, Jan 22

Solve the following problems and staple your solutions to this cover sheet.

1. Exercise 5.31
2. Exercise 5.32
3. Exercise 5.41
4. Exercise 5.45
5. Exercise 5.46
6. Exercise 5.49
7. Exercise 5.52
8. Exercise 5.56
9. Exercise 5.59
10. Let $f(y_1, y_2) = y_1 + y_2$, $0 \leq y_1 \leq 1$, $0 \leq y_2 \leq 1$, be the joint probability density function of Y_1 and Y_2 . Find $E(Y_1)$, $E(Y_2)$, $E(Y_1Y_2)$, $V(Y_1)$ and $Cov(Y_1, Y_2)$.