4.4-13 (a) $f_X(x) = 4x(1 - x^2)$, $0 \leq x \leq 1$; $f_Y(y) = 4y^3$, $0 \leq y \leq 1$;
   
   (b) $\mu_X = 8/15$; $\mu_Y = 4/5$; $\sigma_X^2 = 11/225$; $\sigma_Y^2 = 2/75$;
   
   Cov($X, Y$) = $4/225$; $\rho = 2\sqrt{66}/33$;
   
   (c) $y = 20/33 + (4/11)x$.

should be

4.4-13 (a) $f_X(x) = 2x$, $0 \leq x \leq 1$; $f_Y(y) = 2(1 - y)$, $0 \leq y \leq 1$;

   (b) $\mu_X = 2/3$; $\mu_Y = 1/3$; $\sigma_X^2 = 1/18$; $\sigma_Y^2 = 1/18$;
   
   Cov($X, Y$) = $1/36$; $\rho = 1/2$;
   
   (c) $y = (1/2)x$. 