$$E(X) = \int_0^1 x\left(x+\frac{1}{2}\right)dx = \int_0^1 \left(x^2+\frac{x}{2}\right)dx = \left(\frac{x^3}{3}+\frac{x^2}{4}\right)\Big|_0^1 = \frac{1}{3}+\frac{1}{4} = \frac{7}{12}$$

$$E(Y) = \int_0^1 y\left(y+\frac{1}{2}\right)dy = \frac{7}{12}$$

$$Cov(X,Y) = \frac{1}{3} - \left(\frac{7}{12}\right)\left(\frac{7}{12}\right) = \frac{1}{3} - \frac{49}{144} = -\frac{1}{144} < 0 \Rightarrow$$

X ve Y ras. değ. leri (−) ilişkilidir.

$X\uparrow Y\downarrow$, $X\downarrow Y\uparrow$