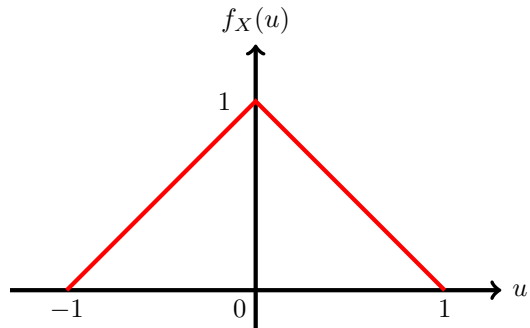


Suppose X is a continuous random variable, whose probability density function is shown in the figure below. If $Y = 3X + 7$, then what is the correlation coefficient $\rho_{X,Y}$ of X and Y ?



- (a) 1
- (b) -1
- (c) 0
- (d) $1/3$
- (e) $1/7$
- (f) $-1/3$
- (g) $-1/7$
- (h) $1/2$
- (i) $1/\sqrt{2}$
- (j) $1/9$
- (k) $1/49$
- (l) $1/21$
- (m) None of these