

If X is a random variable that is uniform on $[0, 3]$ and $Y = e^X$, then what is the pdf value $f_Y(8)$?

- (a) $1/24$
- (b) $1/8$
- (c) $1/3$
- (d) $1/4$
- (e) $1/12$
- (f) $(\ln 8)/8$
- (g) $(3 \ln 8)/8$
- (h) $(\ln 8)/24$
- (i) e^8
- (j) $\ln 8$
- (k) e^3
- (l) None of these