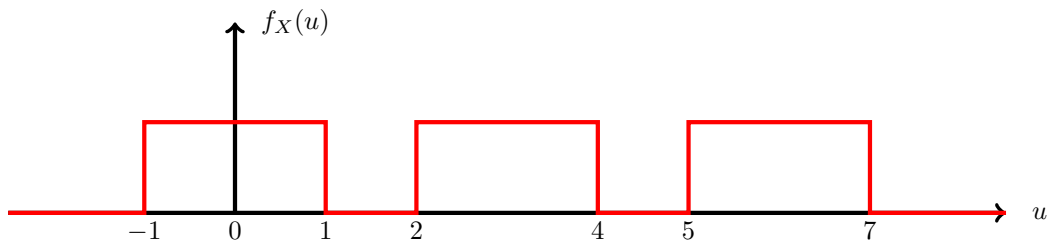If random variable X has probability density function shown below, then what is the variance of $E[X^2 - 2X + 1]$?

(a) 0

(b) 1

(c) 2

(d) 3

(e) 4

(f) 5

(g) 1/2

(h) 3/2

(i) 5/2

(j) 31/3

(k) 5734/45

(l) None of these