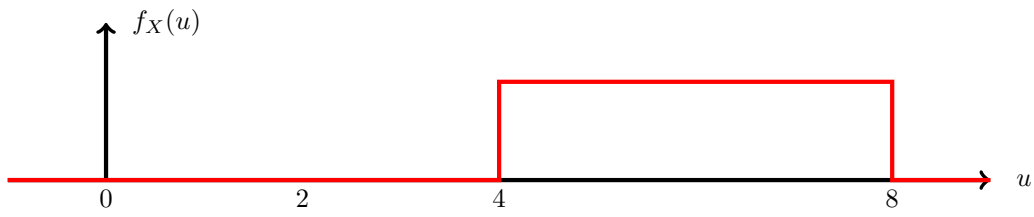


If random variable X has probability density function shown below, then what is the expected value of \sqrt{X} ?



- (a) $4(2\sqrt{2} - 1)/3$
- (b) $16(2\sqrt{2} - 1)/3$
- (c) $(2\sqrt{2} - 1)/3$
- (d) $4(\sqrt{2} - 1)/3$
- (e) $4(2\sqrt{2} - 1)$
- (f) $4(2\sqrt{2} + 1)/3$
- (g) $8(2\sqrt{2} - 1)/3$
- (h) 2
- (i) $5/2$
- (j) $2\sqrt{2}$
- (k) $4\sqrt{2}$
- (l) None of these