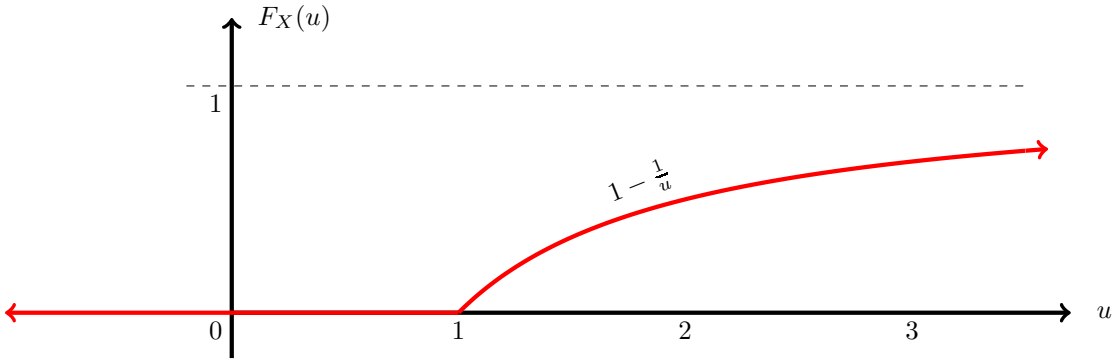
Let X be a random variable whose cummulative distribution function is shown below. What is the infinite sum

$$P(1.5 < X \leq 2.5) + P(2.5 < X \leq 3.5) + P(3.5 < X \leq 4.5) + \ldots$$

equal to?



(a) 2/3

(b) 1/3

(c) 1/2

(d) 1/4

(e) 1/6

(f) 1

(g) 5/6

(h) 3/2

(i) 3/4

(j) 1/12

(k) 8/9

(l) None of these