If X and Y are independent random variables, with X uniform on $[-1, 2]$ and Y uniform on $[-1, 1]$, then what is the probability that $2X - 3 < Y < 2X + 1$?

(a) 2/3

(b) 1/9

(c) 1/18

(d) 1/3

(e) 2/9

(f) 4/9

(g) 5/9

(h) 7/9

(i) 1/6

(j) 3/4

(k) 5/6

(l) None of these