Suppose we flip 5 fair coins. Let X be the number of Heads and let Y be the number of Tails. What is the probability that X + Y is even?

- (a) 0
- (b) 1
- (c) 1/2
- (d) 1/5
- (e) 1/3
- (f) 1/4
- (g) 2/3
- (h) 2/5
- (i) 1/25
- (j) 3/5
- (k) 4/5
- (l) None of these.