If X is a continuous random variable that is uniformly distributed on the interval [-5,8], then what is the probability that  $X^2/3$  is less than 6-X?

- (a) 8/13
- (b) 9/13
- (c) 8
- (d) 1/8
- (e) 1/13
- (f) 1/3
- (g) 2/8
- (h) 2/13
- (i) 2/3
- (j) 1
- (k) 0
- (l) None of these