

101. The profit for a new product is given by $Z = 3X - Y - 5$. X and Y are independent random variables with $\text{Var}(X) = 1$ and $\text{Var}(Y) = 2$.

What is the variance of Z ?

- (A) 1
- (B) 5
- (C) 7
- (D) 11
- (E) 16