

Linear Combination of Random Variables – 2021/20 GCE Statistics Further Math A Y542**1. Nov/2020/Paper_Y542/01/No.4**

The random variable X is equally likely to take any of the n integer values from $m+1$ to $m+n$ inclusive. It is given that $E(3X) = 30$ and $\text{Var}(3X) = 36$.

Determine the value of m and the value of n .

[7]