1. Let $X_{1}$ and $X_{2}$ be two independent random variables. $X_{1}$ is normal $N(1,1)$ and $X_{2}$ is normal $N(0,2)$. Compute

$$
P\left\{X_{1}+2 X_{2} \leq 6\right\}
$$

using one of the enclosed tables.
2. Let $X_{1}, X_{2}, X_{3}$ be independent identically distrubuted normal $N(0,6)$ random variables. Find $c$ such that

$$
P\left\{X_{1}^{2}+X_{2}^{2}+X_{3}^{2} \leq c\right\}=.95
$$

using one of the enclosed tables.

