H_0 : $\mu = 68$ kilograms,

Suppose that we wish to test the hypothesis

$$H_1$$
: $\mu > 68$ kilograms

for the weights of male students at a certain college, using an $\alpha=0.05$ level of significance, when it is known that $\sigma=5$. Find the sample size required if the power of our test is to be 0.95 when the true mean is 69 kilograms.