$$\frac{\overline{\chi} - \mu}{(5/\sqrt{n})} \rightarrow T = \frac{2}{\sqrt{\gamma}r} \frac{2 n N(0, 1)}{\sqrt{\gamma} \sqrt{r}}$$

$$\frac{\overline{\chi} - \mu}{\sqrt{\gamma} \sqrt{r}} \rightarrow T = \frac{2}{\sqrt{\gamma} \sqrt{r}} \frac{2 n N(0, 1)}{\sqrt{\gamma} \sqrt{r}}$$

$$\frac{2}{\sqrt{\gamma} \sqrt{r}} = \frac{2}{\sqrt{\gamma} \sqrt{r}} \frac{2 n N(0, 1)}{\sqrt{r}}$$

Thus pdf
$$f(x) = \frac{r(\frac{r+1}{2})}{\sqrt[n]{(\frac{r}{2})\sqrt{\pi}r}} \left( \left| + \frac{x^2}{r} \right|^{-\frac{r+1}{2}} \right) \times e^{(-\infty, \infty)}$$

$$Tf r>1, E[T]=0.$$

$$Tf r>2, var(T)=f$$