

Xi rid N(0,02). . 070. For Scale family the transposition required Y=0X > X= 4/0  $f_{0}(\pi_{i}) = \frac{1}{(2\pi 8^{2})^{2}} erp \left[ \frac{1}{2} \frac{(2\pi 8^{2})^{2}}{(2\pi 8^{2})^{2}} \right]$ So density of y will be  $f(y) = \frac{(2\pi 8^{2})^{2}}{(2\pi 8^{2})^{2}} erp \left[ -\frac{1}{2} \frac{(y-8)^{2}}{(5\pi 8^{2})^{2}} \right] = \frac{(2\pi 8^{2})^{2}}{(2\pi 8^{2})^{2}}$  $= \frac{1}{(\sqrt{2}\pi \theta^{2})^{2}} \frac{(\sqrt{9-9})^{2}}{(\sqrt{2}\theta^{2})^{2}} \frac{(\sqrt{9-9})^{2}}{(\sqrt{9-9})^{2}} \frac{1}{(\sqrt{9-9})^{2}}$ >> YN N(00, (00)27 Thus, is belong to the Scale family.