(a)
$$E(T) = \mu = 36$$

$$P(27\frac{42-36}{5})=0.2$$

$$\frac{1}{2}(1-\phi^*(\frac{6}{5}))=0.2$$

$$c \iint_{0}^{(a)} y \, dx \, dy = 1$$

$$c = \frac{1}{2}$$

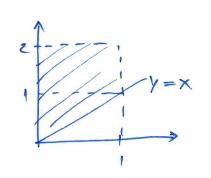
(b)

$$f_{x}(x) = \frac{1}{2} \int y \, dy = 1$$

 $f_{y}(y) = \frac{1}{2} y \int dx = \frac{1}{2} y$

$$P(X < Y) = 1 - \frac{1}{2} \int_{0}^{X} y dy dx$$

$$= 1 - \frac{1}{12} = \frac{11}{12}$$



$$= \frac{355 \frac{1}{2} y \, dxdy}{1/2} = \frac{1}{4}$$

$$E(X; -\overline{X}) = 0 \Rightarrow D(X; -\overline{X}) = E(X; -\overline{X})^{2}$$

$$E(s^2) = \frac{1}{n-1} \sum_{i=1}^{n} E(X_i - \overline{X})^2$$

$$=\frac{1}{n-1}\sum_{i=1}^{n}D(X_{i}-\frac{1}{n}\sum_{j=1}^{n}X_{j})$$

$$=\frac{1}{n-1}\sum_{i=1}^{n}D\left(\frac{n-1}{n}X_{i}-\frac{1}{n}\sum_{j\neq i}X_{j}\right)$$

$$= \frac{n-1}{2} \left(\frac{n}{n-1} \right)^{2} 6^{2} + \left(\frac{n}{n} \right)^{2} 6^{2} (n-1)$$

$$\bar{x} = 938.7667$$

$$1 - x = 95\%$$

$$D(x_i) = \int_{-\infty}^{\infty} (x - E(x))^2 f(x) dx$$

$$= 2 \int_{0}^{\infty} (x - 1)^2 x dx = \frac{1}{6}$$

Prema CGT
$$2 = \frac{x-1}{|E|/10}$$
 mozeno aprokomirati jediničnom normalnam razdiobom.

$$P(-0.16.1016 < 2 < 0.02.1016) = 20.02.1016$$