Druk: X(+) = cos(++ Or) olarak wertlen ramal soregte à rassal dépissen olup osopidalis classille fonksiyonuna saliptir.

Rassal surecin:

c. Oto horelasyonum a. Ortalamasını d. Oto hovaryannin bulun. b. Varyansin

(525m:

Seiom:
a.
$$X = E[X(t)] = E[\cos(t+R)]$$

= $P(R=0)$. $\cos(t+D) + P(R=T)\cos(t+T)$
= $\frac{1}{2}\cos(t) + \frac{1}{2}\cos(t+T)$
= $\frac{1}{2}\cos(t) + \frac{1}{2}[\cos(t)\cos(T) - \sin(t)\sin(T)]$
= $\frac{1}{2}\cos(t) + \frac{1}{2}[\cos(t+T)\cos(T) - \sin(t)\sin(T)]$

$$=\frac{1}{2}\cos(+)-\frac{1}{2}\cos(+)=0$$

b.
$$Var(X(+)) = E[X^{2}(+)] - (E[X(+)])^{2}$$

 $E[X^{2}(+)] = E[\cos^{2}(++\Theta)]$ $2\cos^{2}x = 1 + \cos^{2}x$
 $= P(Q=0)\cos^{2}(++O) + P(Q=T)\cos^{2}(++T)$
 $= \frac{1}{2}\cos^{2}(+) + \frac{1}{2}\cos^{2}(++T) = \cos^{2}(++T)$

$$Var(X(t)) = cos^{2}(t)$$

$$\frac{\text{Not}: \cos^2(++\pi) = 1 + \cos(2++2\pi)}{2} = \frac{1 + \cos(2+)}{2} = \cos^2(+)$$