4. 注明
$$E(X(t)) = E(\sin(At+\Theta)) = 0$$
 $P_{x}(t) = E[X(t) X(t+t)]$
 $= E(\sin(At+\Theta) \sin(At+O+At))$
 $= E(\sin(At+\Theta) \sin(At+O+At))$
 $= E(-\frac{1}{2}(\cos(2At+2O+At)) - \cos(At))$
 $= -\frac{1}{2}(E(\cos(2At+2O+At)) - E(\cos(At))$
 $P_{x} = -\frac{1}{2}(E(\cos(At+2O+At)) -$

12. (1)
$$R_{xy}(-\epsilon) = E(x(\epsilon))Y(\epsilon) = E(y(\epsilon))X(\epsilon) = R_{yx}(\epsilon)$$

$$|R_{xy}(\epsilon)|^2 = \int E(x(\epsilon))Y(\epsilon)Y(\epsilon)|^2 \leq E(x(\epsilon))E(Y(\epsilon)) = R_{x}(\epsilon)R_{y}(\epsilon)$$

$$|R_{xy}(\epsilon)|^2 = \int R_{x}(\epsilon)Y(\epsilon)Y(\epsilon)|^2 \leq E(x(\epsilon))Y(\epsilon)|^2 = R_{x}(\epsilon)R_{y}(\epsilon)$$

$$|R_{xy}(\epsilon)|^2 = \int R_{x}(\epsilon)Y(\epsilon)Y(\epsilon)|^2 \leq E(x(\epsilon))Y(\epsilon)|^2 = R_{x}(\epsilon)R_{y}(\epsilon)$$

$$|R_{xy}(\epsilon)|^2 = \int R_{x}(\epsilon)Y(\epsilon)Y(\epsilon)|^2 = \int R_{x}(\epsilon)X(\epsilon)|^2 = \int R_{x}(\epsilon)R_{y}(\epsilon)|^2 = \int R_{x}(\epsilon)R_{y}(\epsilon)R_{y}(\epsilon)|^2 = \int R_{x}(\epsilon)R_{y}(\epsilon)R_{y}(\epsilon)|^2 = \int R_{x}(\epsilon)R_{y}(\epsilon)R_{y}(\epsilon)R_{y}(\epsilon)|^2 = \int R_{x}(\epsilon)R_{y}(\epsilon)R_{y}(\epsilon)R_{y}(\epsilon)R_{y}(\epsilon)|^2 = \int R_{x}(\epsilon)R_{y}($$