if
$$i \neq j$$

$$E(\epsilon; \epsilon_i) = E(\epsilon_i) E(\epsilon_i)$$

$$= 0.0 = 0$$

= Var (E;) +E(E;) = 1 + 0 = 1

$$y_{0} = 0$$
 $y_{1} = 5 + v_{1}$
 $y_{2} = 25 + v_{2} + v_{1}$
 $y_{3} = 35 + v_{3} + v_{2} + v_{1}$
 \vdots
 \vdots
 $y_{t} = t + t + v_{1}$
 \vdots
 $y_{t} = t + t + v_{1}$
 \vdots

$$f(Y_k) = St$$

$$(o(Y_k, Y_{t+k}) = t$$

$$y_t = v_{t-1} + v_t \qquad v_t \sim N(0,1)$$

$$Y_{1} = V_{0} + W,$$

$$Y_{2} = W_{1} + U_{2}$$

$$Y_{3} = U_{2} + V_{3}$$

$$V_{4} = V_{3} + V_{4}$$

$$= \frac{E(Y_{e}) = E(V_{4-1}) + E(V_{4})}{(V_{e}, Y_{frk})}$$

$$= \frac{E(Y_{e}) - O(Y_{frk} - O)}{(Y_{frk} - O)}$$

$$\vdots$$

$$Y_{4} = V_{3} + V_{4}$$

$$= \frac{E(Y_{e} - O)(Y_{frk} - O)}{(Y_{frk})}$$

$$= \frac{1}{2} E(Y_{f} + Y_{frk})$$

$$= \frac{1}{2} E(Y_{f} + Y_{frk})$$

$$= \frac{1}{2} E(Y_{f} + Y_{frk})$$

$$= \frac{1}{2} (V_{f} + V_{frk})$$