HW 0421

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$$E(x) = y_1 + \theta, \quad E(2) \quad \text{From } x \cdot y_1 + \theta_{12} + v \text{ to}$$

$$\text{obtain } x - E(x) = \theta, \quad [2 - E(2] + v]$$

Multiply by [2-tex]

Assuming:
$$E(2-E(2))U=0$$

$$\Rightarrow \theta_1 = \frac{E[(2-E(2))(x-E(x))]}{E[(2-E(2))^2]} = \frac{Cav(2,x)}{Var(2)}$$

6. Subtoact
$$E(y) = \pi_0 + \pi_1 E(x)$$
 from $y = \pi_0 + \pi_{12} + \mu$
 $\Rightarrow Y - E(y) = \pi_1(z - E(z)) + \mu$

$$(2-E(2))(y-E(y)) = T_1(2-E(2))^2 + (2-E(2))u$$
Assuming $E(2-E(2))u=0$,

Solving for T, we have:
$$T_1 = E[(2-E(2))(g-E(g))] = Cov(219)$$

$$E[(e-E(2))^2] = Vor(2)$$

C.
$$y = p_1 + p_2 + q_2 = p_1 + p_2 (Y_1 + \theta_{12} + V) + q_2$$
 $\Rightarrow (p_1 + p_2 Y_1) + p_2 \theta_{12} + p_2 Y + q_2$
 $\Rightarrow (p_1 + p_2 Y_1) + p_2 \theta_{12} + p_2 Y + q_2$
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C 16002

PE (NWIFEING) (-) other sources - & Supp	ply labor
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- b. Explain: Endogeneity issues arising from
 - Simultaineity: WAGET may be influence Cabour suply.
 - -> Violate MS assumption.
 - Omited variable.
 - * mearsurement error.
 - Co. EXITER & EXPERE Com be valid instruments.
 - 1. Relevance: books are empected to be positively com with water
 - 2. Exogeneity. Neither EXPEK nor EXPER should have a effect on hours beyond Kneir influence on WARRE
 - 3. Independence.
 - dy yes, the supply equation is identified
 - e) First-stage WAGE= to + & triber + 1/2 EXPEX2+...
 - Obtain filed values
 - Second Estage regression.

Hours = \$0 + BIWAGE + 32 EDUL+.

- took model fit
- Interprest resuls