

# Solutions to Problem Set 1

Econometrics (30413)

Spring 2022

## Theory Questions

### Question 1

Given the model:

$$Y = X\beta + e$$
$$e \sim i.i.d.N(0, \sigma^2 I)$$

consider a general linear estimator:

$$\hat{\beta}_{K \times 1} = \left[ (X'X)^{-1}_{K \times K} X' + C_{K \times T} \right] Y_{T \times 1}$$

where  $C$  is a deterministic matrix.

- Write down the condition to be imposed on  $C$  so that  $E(\hat{\beta}) = \beta$ .
- Supposing that the condition in a) is satisfied, write down the variance-covariance matrix of  $\hat{\beta}$ .
- Show whether the estimator  $\hat{\beta}$  is consistent.
- Show which condition has to be imposed on  $C$  in order for the model fit  $X\hat{\beta}$  and the residuals  $Y - X\hat{\beta}$  to be orthogonal.

# Problem Set 1 Solutions 240 C Time Series Econometrics

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