~ AAS Week 4 Exterior Quetions ~

O Omitted Variable Bias: You estimate the following requession model: YE = Bo = R. XI + CL: to greate as estimate of R. R. However, the true data general process on be given by water the trans to - po - pi + ui je. You incomedy specifical your indial regression. -> Colcubb p, under the assemption that the initial specification - we the knowledge of and cov() to write the Be joined in the term of appelation and covarious and various proces is YE = \$6 + \$1 Xi + \$2 Xi, por show that our initial fi is a biased estimate of \$1 -> Provo that the bias can be characterized: E (\$1) = B1 + B3 COV(XII.X2) Var(XI) - what does the direction of the bias depend on? 2) Considert and continued extension: No have a standard SLR, Yi= Bo+ RIXi+ E: You can assume E[u:1X]=0 Var(ailx)=02 and X=(x,,,,Xa) = ic. there are a p the size. A absenction A) Consider the extinctor \$1 of \$1 (Not circ), \$1 = \frac{1}{3} + \frac{1}{1} - 2\frac{1}{2} -> 6 \$, consoler?

-> 6 p, unbiased?