

$$\det \begin{pmatrix} 1 & 0 \\ 0 & x \end{pmatrix} + \begin{pmatrix} y & 0 \\ 0 & 0 \end{pmatrix}$$

$$= \det \begin{pmatrix} y+1 & \\ & x \end{pmatrix} \quad \frac{1}{x} \quad \frac{x}{x}$$

$$\frac{\hat{\mu}'(\theta)}{\hat{\mu}''(\hat{\theta})} = (x)(y+1) \frac{\hat{\mu}(\theta)}{\hat{\mu}''(\theta) + \mu''(\theta) - \mu''(\theta)} \quad \frac{1}{x} \text{ vs } \frac{1}{x+\epsilon}$$

$$\mu''(\theta) + \text{error}$$

$$\frac{\hat{\mu}(\theta)}{\mu''(\hat{\theta}) + \epsilon''(\hat{\theta})}$$

$$\hat{\mu}''(\hat{\theta}) \text{ vs } \mu''(\theta)$$

$$\det(A_n + B_n)$$

$$= \det(A_n) + \det(B_n)$$

$$\frac{1}{c} \text{ vs } \frac{1}{c+x}$$

$$\text{simulate } \hat{\mu}''(\hat{\theta})$$

simulate the denominators?

$$\mathbb{E}X^2 - (\mathbb{E}X)^2 \geq 0$$

$$\mathbb{E}\left[\frac{1}{x}\right] > \frac{1}{\mathbb{E}x}$$

$$\frac{1}{E}$$

$$\frac{\hat{\mu}(\theta)}{\hat{\mu}''(\hat{\theta}) - \mu''}$$

change to add the $x < 0$ case.