



made by S.-W. Cheng (NTHU, Taiwan)

Lecture Notes

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• (exercise) 
$$E(X^k) = \frac{\Gamma(\alpha+k)}{\lambda^k \Gamma(\alpha)}$$
, for  $0 < k$ , and  
 $E(\frac{1}{X^k}) = \frac{\lambda^k \Gamma(\alpha-k)}{\Gamma(\alpha)}$ , for  $0 < k$ , and  
 $E(\frac{1}{X^k}) = \frac{\lambda^k \Gamma(\alpha-k)}{\Gamma(\alpha)}$ , for  $0 < k < \alpha$ .  
Some properties  
 $(\frac{1}{M^k}, \frac{1}{M^k}) = \frac{\lambda^k \Gamma(\alpha-k)}{\Gamma(\alpha)}$ , for  $0 < k < \alpha$ .  
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 $(\frac{1}{M^k}, \frac{1}{M^k}) = \frac{\lambda^k \Gamma(\alpha-k)}{\Lambda^k}$ , if  $x \ge 0$ ,  
 $(\frac{1}{M^k}, \frac{1}{M^k}) = \frac{\lambda^k \Gamma(\alpha-k)}{\Lambda^k}$ , if  $x < 0$ ,  
 $(\frac{1}{M^k}, \frac{1}{M^k}) = \frac{\lambda^k}{\Lambda^k}$ ,  $(\frac{1}{M^k}, \frac{1}{M^k}) = \frac{\lambda^k}{\Lambda^k}$ ,  $(\frac{1}{M^k}, \frac{1}{M^k}) = \frac{\lambda^k}{\Lambda^k}$ ,  $(\frac{1}{M^k}) = \frac{\lambda^$ 

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