

The Adams 
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c) 
$$(A(A^TA)^T)^T = (A^TA)^T A^T$$
  
 $= (A^TA)^T A^T$ 

$$(A^TA)^{-1}A^TA(A^TA)^{-1}=(A^TA)^{-1}$$

$$(V \geq^{T} \geq V^{T})^{1} = (V \geq^{T} V^{T})^{-1}$$

$$\sum_{i=1}^{\infty} \frac{1}{6i^{2}} = \begin{bmatrix} \frac{1}{6i^{2}} & \frac{1}{6i^{2}} \\ \frac{1}{6i^{2}} & \frac{1}{6i^{2}} \end{bmatrix}$$

$$d)(A(A^{T}A)^{-1}A^{T})^{T} = A(A(A^{T}A)^{-1}A^{T})^{T}$$

$$U \geq V^{T} \left( V \geq^{T} U^{T} U \geq V^{T} \right)^{-1} V \geq^{T} U^{T}$$

$$U \geq V^{T} V \geq^{T} U^{T} U \geq^{T} U^{T}$$

$$U \geq \tilde{\Sigma}^{-1} \geq^{T} U^{T} U \leq^{T} \tilde{\Sigma}^{-1} \tilde{\Sigma}^{-1}$$

2) 
$$3e$$
 que  $A:U \ge V^{T}$ 

Con  $\sum_{i=0}^{\infty} {\binom{6_i}{6_i}}$   $\binom{6_i}{6_i}$   $\binom{6_i}{6_i}$   $\binom{6_i}{6_i}$ 

Sor 
$$A_{\epsilon} = U \geq V^{T}$$

$$\cos \sum_{i=1}^{\infty} = \begin{cases} 6, \\ 6, \\ e \end{cases}$$

$$=U \left[ \begin{array}{c} \\ \\ \end{array} \right] V^{T}VW_{Z}$$

$$\tilde{\Xi} = \begin{pmatrix} 6^{2} \\ 6^{3} \end{pmatrix} = V \tilde{\Xi} V^{\dagger} + \lambda V V^{\dagger}$$

$$= V(\tilde{S} + \lambda I) V^{T}$$

$$(x^{-1} = V)^{A} = V \left( \frac{1}{6^{1+\lambda}} \right)^{A} = V \left( \frac{1}$$

$$\frac{6_{1}}{6_{1}^{2}+\lambda} = \frac{1}{6_{1}} = \frac{6_{1}^{2}-6_{1}^{2}+\lambda}{(1(6_{1}^{2}+\lambda))} = \frac{\lambda}{6_{1}(6_{1}^{2}+\lambda)}$$

$$= \sqrt{\sum_{i=1}^{2} \sqrt{i}} \frac{1}{6_{1}(6_{1}^{2}+\lambda)}$$

2 n Xn + 2n x 1-1

 $\mathbb{Q}$ :  $H = \mathbb{Q}^T A \mathbb{Q}$ . J HT = QTAQ AT 2 A es limétoin

\* Her tri Lizgond