CM2021/08/26 Thursday, August 26, 2021 4:17 PM ×z Q Vector spaces ₹a' Q Vector PQ is identified by 3 things: 1. Length of PQ: |PQ| PG Olum 2. Direction of PQ: e_{PQ} is of epa 3. Sometimes we also care about base point P (often we don't care about this). B direction of If we differentiate vectors by their base point as well, they are called bound vectors bon-bond velte ev 2 V Addition 3+v= V+W Scalar product 1221 =1211V YER ev λ>0 -ev λ<0 -ev λ<0 -ev λ<0 \vec{v} Ĺ 2 ,25 $-\alpha := (-1) q$ (a)-9=Q+(-a)=0 9 a-b-a+(b)





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$$\overrightarrow{P_{a}} = \overrightarrow{P_{a}} = \overrightarrow{a} = \overrightarrow{a}$$







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Note about HW1

^{5. (20} Points) Show that the components of the inverse of a matrix satisfy,

5. (20 Points) Show that the components of the inverse of a matrix satisfy,

 $=\frac{1}{2\det A}\epsilon_{ijk}\epsilon_{pqrA}^{j}$ A **Hint**: Compute $A_{rk}^{-1}A_{km}$. This is very important \sim

(6)