

Schotz 6.34 (b) 
$$[\vec{0}, \vec{+}\vec{v}] = U^{\beta} \gamma_{\beta} (\vec{+} V^{A}) - f V^{\beta} \gamma_{\beta} U^{A}$$

$$= (J^{\beta} \gamma_{\beta} V^{A} - V^{\beta} \gamma_{\beta} U^{A}) + V^{A} U^{\beta} \nabla_{\beta} f$$

$$= f [\vec{U}, \vec{v}] + \vec{v} (\vec{J} \cdot \nabla f).$$
Davidson they
$$+.29.2024$$

Schutz 6. 39 (c) By Defn to [a (v)]=(to a)(v)+a(tov) マ (とこの)はら= セットのはい」ーの(セッグ) = Li [wava] - wa (UP VBVA - VP VBUA) = UB VB [WaV2] - WaUB (BVa) + WaVB (BUd) = UB(VB W2) Va + UBW (VB Va) - W2 UB (VB Va) + Way PCTBUA) = UB ( TBW2) Vd + WB (TQUB) Vd (related dummy = (UB VB WA + WB VAUB) Vd Davidon Chen 5.9.2024