

Differential Geometry

Ch 2: Vector Fields

Exercises

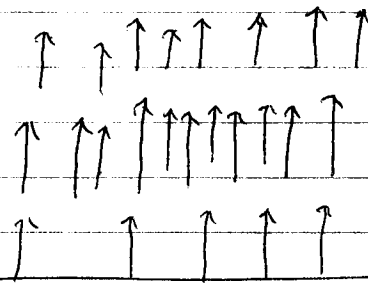
J.A. Thorne

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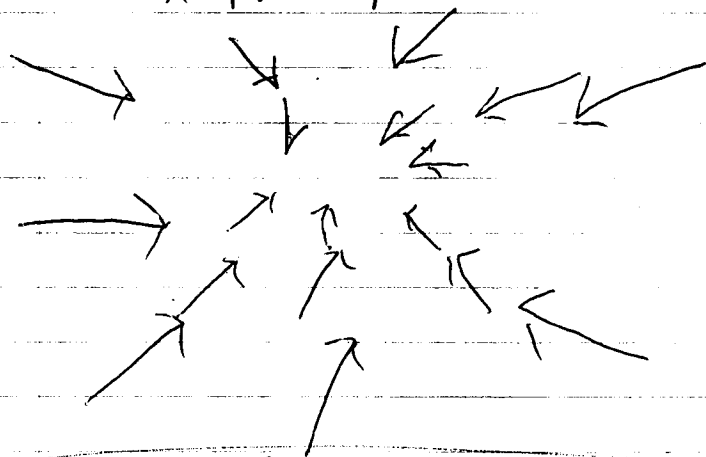
21. - stretch the vector field on \mathbb{R}^2 : $X(p) = (p, X(p))$

where

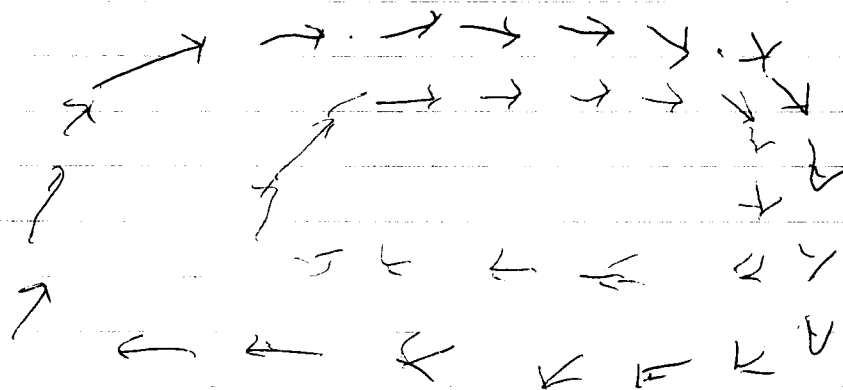
a). $X(p) = (0, 1)$



b). $X(p) = -p$



c). $X(p) = (x_2, -x_1)$



)) $\chi(x_1, x_2) = (x_2, x_1)$