



stable fixed point

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Entry type	Definition
Classification	msc 34D20
Synonym	asymptotically stable fixed point
Related topic	AttractingFixedPoint
Related topic	LiapunovStable
Related topic	NeutrallyStableFixedPoint
Related topic	UnstableFixedPoint

Let X be a vector field on a manifold M . A fixed point of X is said to be stable if it is both <http://planetmath.org/AttractingFixedPoint> attracting and Lyapunov stable.