## Point Source


vector field $\vec{v}=m \frac{\hat{r}}{r}$
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## Vortex


vector field $\vec{v}=\Omega(-y \hat{\imath}+x \hat{\jmath})$
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## The Damped Nonlinear Pendulum


direction field for $x^{\prime}=y, y^{\prime}=-y-2 \sin x$

