vectorFields1.nb

Vector Fields

<< Graphics \

Example. The gravitational vector field (thanks to sir Isaac; here is a 2D-picture):

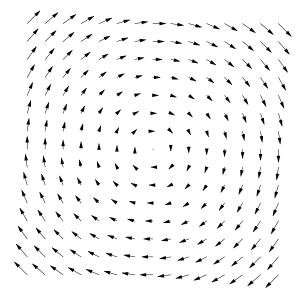
Example. The rotary vector field (gives the 2D–modelthe velocity flow of water around a sink):

vectorFields1.nb 2

Vector fields for some of the homework problems

PlotVectorField[{y, -x}, {x, -2, 2}, {y, -2, 2}, PlotLabel -> "Problem 9, p.248"]

Problem 9, p.248



PlotVectorField[{x, -y}, {x, -2, 2}, {y, -2, 2}, PlotLabel -> "Problem 10, p.248"]

Problem 10, p.248

vectorFields1.nb 3

PlotVectorField[$\{x, x^2\}$, $\{x, -2, 2\}$, $\{y, -2, 2\}$, PlotLabel -> "Problem 11, p.248"]

Problem 11, p.248