

# Gradient Fields

In this activity, blah blah blah

One common way that vector fields arise is through the gradient of a function. That is, suppose we have a function  $f : \mathbb{R}^n \rightarrow \mathbb{R}$ . Then we can find the gradient of  $f$ ,

$$\nabla f(x_1, \dots, x_n) = \left( \frac{\partial f}{\partial x_1} \right)$$