

## Exercise 4

Sketch the vector field  $\mathbf{F}$  by drawing a diagram like Figure 5 or Figure 9.

$$\mathbf{F}(x, y) = y \mathbf{i} + (x + y) \mathbf{j}$$

### Solution

Below is a plot of the vector field in the  $xy$ -plane. The length and hue of each vector indicate its magnitude.

