

## Exercise 10

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

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

### Solution

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

