

## Exercise 15

Match the vector fields  $\mathbf{F}$  on  $\mathbb{R}^3$  with the plots labeled I-IV. Give reasons for your choices.

$$\mathbf{F}(x, y, z) = \mathbf{i} + 2\mathbf{j} + 3\mathbf{k}$$

### Solution

This vector field corresponds with plot IV. The vectors all point upward in the same direction and have the same magnitude.

