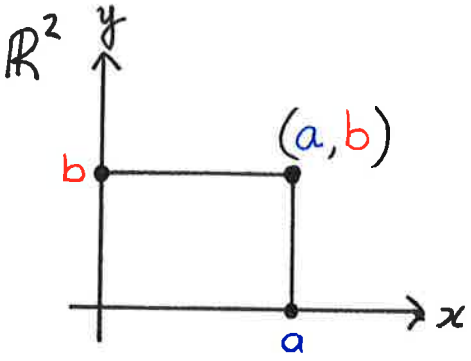
§1

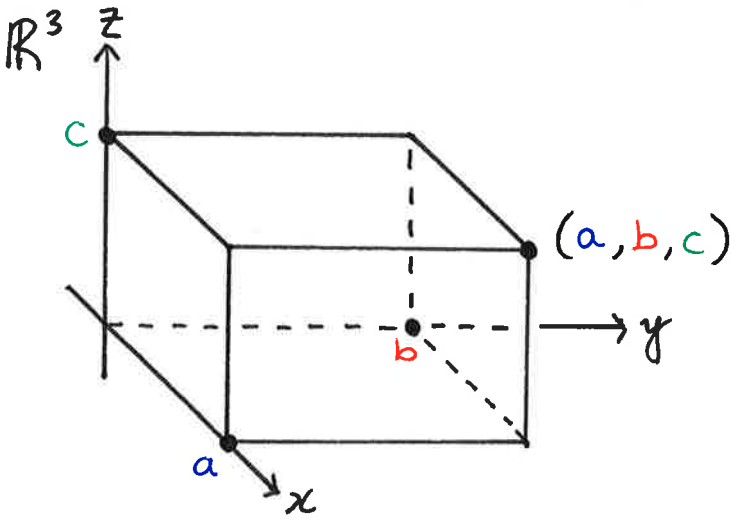
$5, 17 \in \mathbb{R}$

Distance between $a, d \in \mathbb{R}$ is $|a-d|$.



$(2, \frac{5}{3}) \in \mathbb{R}^2$

Distance between $(a,b), (d,e) \in \mathbb{R}^2$ is $\sqrt{|a-d|^2 + |b-e|^2}$.



Distance between $(a,b,c), (d,e,f) \in \mathbb{R}^3$ is $\sqrt{|a-d|^2 + |b-e|^2 + |c-f|^2}$

Coordinate planes in $\mathbb{R}^3$