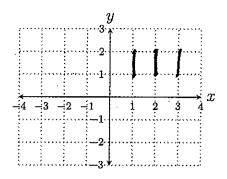
1. Suppose $A = \{2,3\}$ and $B = \{0,\emptyset\}$. Write $A \times B$ by listing its elements between braces.

$$A \times B = \{(2,0), (2, \phi), (3,0), (3, \phi)\}$$

2. Sketch the set $\{1,2,3\} \times [1,2]$ on \mathbb{R}^2 .

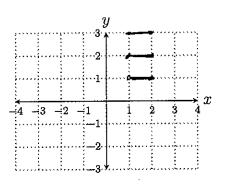


3. Suppose $A = \{a, b, c, d\}$, and let $B = \{X \subseteq A : |X| \le 1\}$. Write out B by listing its elements between braces.

4. If $B = \{2, 4, 6\}$, then $\mathcal{P}(B) = \left\{ \phi, \{2\}, \{4\}, \{6\}, \{2, 4\}, \{2, 6\}, \{4, 6\}, \{2, 4, 6\} \right\}$

Suppose $A = \{a, b, c\}$ and $B = \{0, 1\}$. Write $A \times B$ by listing its elements between braces 1.

2. Sketch the set $[1,2] \times \{1,2,3\}$ on \mathbb{R}^2 .



Suppose $A = \{a, b, c, d\}$, and let $B = \{X \subseteq A : |X| = 2\}$. 3. Write out B by listing its elements between braces.

$$B = \{\{a,b\}, \{a,c\}, \{a,d\}, \{b,c\}, \{b,d\}, \{c,d\}\}\}$$

If $A = \{0, \emptyset\}$, then $\mathcal{P}(A) = \{\phi, \{\phi\}, \{\phi\}, \{\phi\}, \{\phi\}\}\}$