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

2. Sketch the set $\{1, 2, 3\} \times [1, 2]$ on $\mathbb{R}^2$.
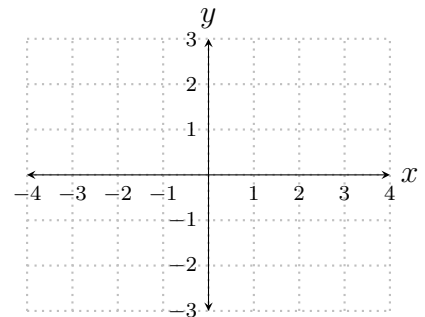
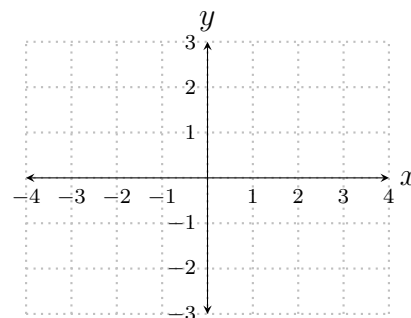3.   Suppose $A = \{a, b, c, d\}$, and let $B = \{X \subseteq A \ : \ |X| \leq 1\}$.

    Write out B by listing its elements between braces.

4.   If $B = \{2, 4, 6\}$, then $\mathscr{P}(B) =$

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

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

3. Suppose $A = \{a, b, c, d\}$, and let $B = \{X \subseteq A \ : \ |X| = 2\}$.

Write out B by listing its elements between braces.

4. If $A = \{0, \emptyset\}$, then $\mathscr{P}(A) =$