1. Write this set by listing its elements between braces: $\{x^2 + 1 : x \in \mathbb{Z}, \ -1 \leq x \leq 2\}$

2. Express the set $X = \{ \ldots, -10, -5, 0, 5, 10, 15, 20, \ldots \}$ in set-builder notation.

3. If $A = \{x \in \mathbb{Z} : x^2 < 10\}$, then $|A| =$

4. Find the cardinality of the set $B = \Big\{ \{1,3\}, \{\{3,5,7\}, \{6\}\}, \emptyset, 8, \{8\} \Big\}$.

1.   Write this set by listing its elements between braces: $\{x \in \mathbb{Z} : |2x| < 5\}$

2.   Express the set $X = \left\{\ldots, \dfrac{1}{8}, \dfrac{1}{4}, \dfrac{1}{2}, 1, 2, 4, 8, \ldots\right\}$ in set-builder notation.

3.   If $A = \{x \in \mathbb{Z} : 1 \leq x^2 \leq 4\}$, then $|A| =$

4. Find the cardinality of the set $B = \Big\{\{\{1, 4\}, a, b, \{3, 4\}, \{\emptyset\}\}\Big\}$.