Problem 3. Sketch the graph of
\[ \{(x, y) : \lfloor x^2 \rfloor + \lfloor y^2 \rfloor = 4\} . \]
For real number \( z \), \( \lfloor z \rfloor \) is the largest integer less than or equal to \( z \). For example, \( \lfloor \pi \rfloor = 3 \), \( \lfloor -4.7 \rfloor = -5 \), and \( \lfloor 10 \rfloor = 10 \). (The function \( \lfloor z \rfloor \) is called the floor function.)