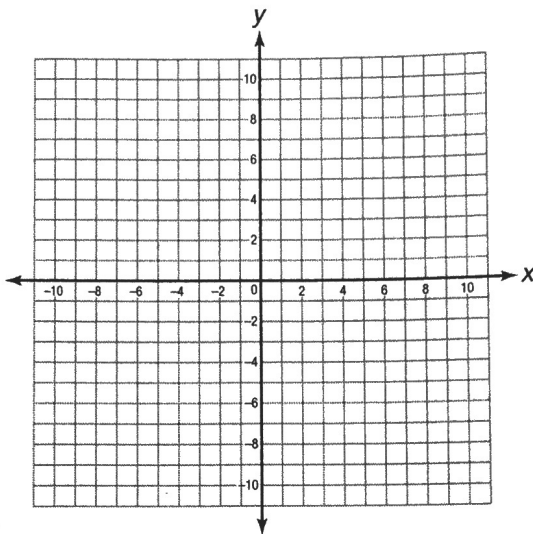


26. An artist is planning a mural for a square wall. She uses a coordinate plane to plan two long, straight lines for the mural. The lines are represented by the system of equations below.

$$\begin{cases} y = \frac{1}{3}x + 1 \\ y = -x + 9 \end{cases}$$

Graph the linear equations on the coordinate plane below and determine where the lines will intersect.



27. Louisa wants to memorize the names and atomic numbers of all 118 elements of the periodic table before the Pasteur High School Chemistry Challenge. On her first day of studying, Louisa memorizes the names and atomic numbers of the 6 noble gases: Helium (2 - He), Neon (10 - Ne), Argon (18 - Ar), Krypton (36 - Kr), Xenon (54 - Xe), and Radon (86 - Rn). Each subsequent day, Louisa plans to memorize the names and atomic numbers of 3 more elements than the number of elements she had memorized during the previous day.
- A. Write an explicit equation and a recursive process to describe the sequence represented by the number of elements that Louisa studies each day.

Explicit equation: _____

Recursive process: _____