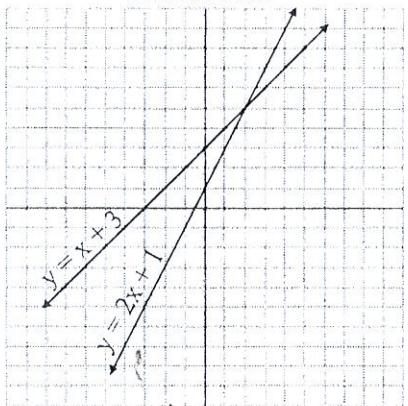


Analyzing Graphs to "see" the number of solutions equations have

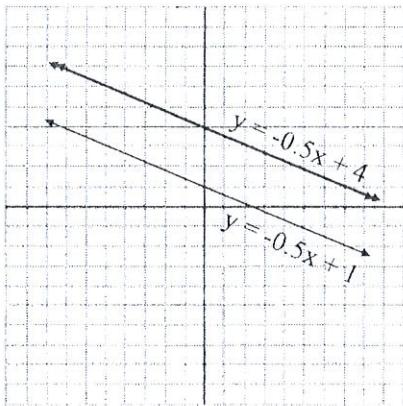
Big Ideas:

\*\*A "solution" on a graph is a point where linear equations intersect (where they are the same value).

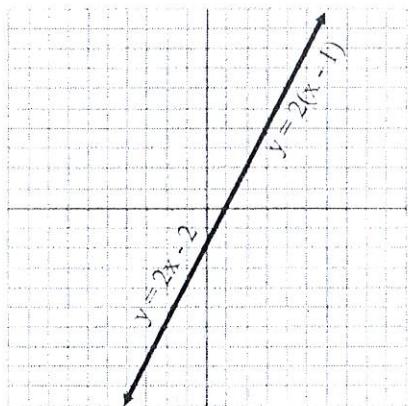
One Solution



No Solution



Infinite Solutions



1 Solution

- Different R.o.C.

$$\begin{cases} y = -0.5x + 4 \\ y = -0.5x + 1 \end{cases}$$

No Solution

- Same R.o.C.
- Different I.V.

$$\begin{cases} y = 2x - 2 \\ y = 2(x - 1) \end{cases}$$

Infinite Solutions

- Same R.o.C.
- Same I.V.