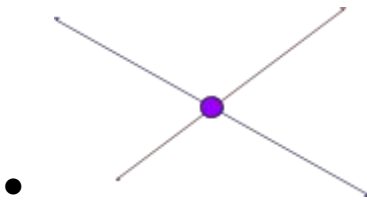


Lecture Notes:

- When we graph a function, the line **Shows all solutions**.
- **Each solutions** is a point, or an **ordered pair**.
- There is no limit to the number of **lines** we can graph.
- Solutions have an **x-value (input)** and a **y-value (output)**.
- Different functions can have the same solution.
- Different functions can meet at the same point.
- That same point is called the **intersection**.
- It looks like:



- Sometimes lines don't intersect. Those lines don't have shared solutions.

Function 1:
 $y = 3x$

Function 2:
 $y = -x + 4$

Solution:

(1, 3)

