

Module 7 Lesson 7

Try This

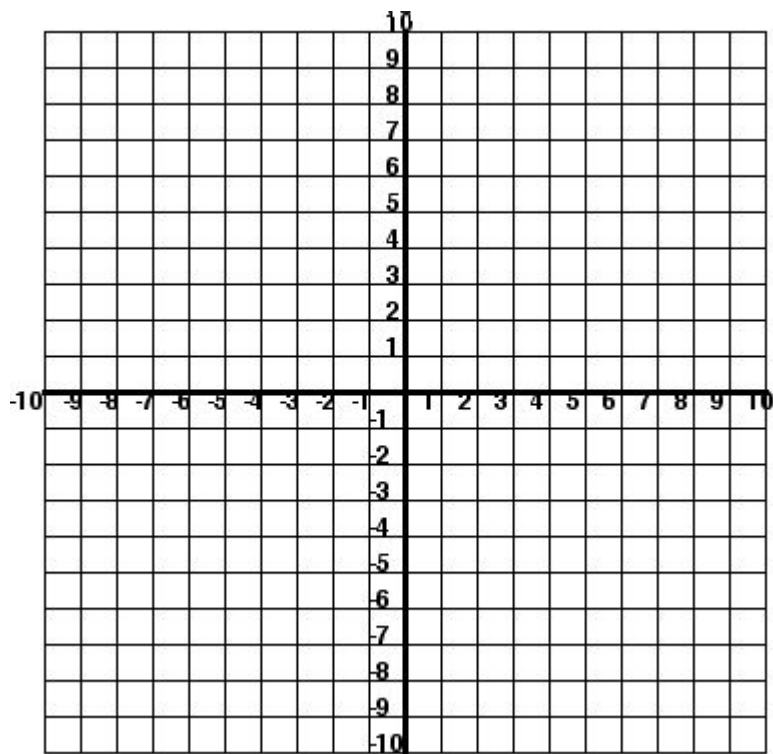
TT 1. Consider the equation $x + y = 5$.

- a. How many different combinations of x -values and y -values could satisfy the equation?
- b. Assume the x -value and y -value that satisfies the equation are whole numbers. List the different combinations in a table. (Hint – make a table of values)

TT 2. Now consider the equation $x + 3y = 9$.

- a. Assume that the x -value and the y -value that satisfies the equation are whole numbers. List the different combinations in a table. (another table of values)
- b. Which combination(s) of x - and y -values would satisfy both $x + 3y = 9$ and $x + y = 5$?

TT 3. Graph the equation $x + y = 5$ on the grid below.



TT 4. Graph the equation $x + 3y = 9$ on the same grid.

TT 5. Identify the point where the two lines intersect.

TT 6. What do you notice about the coordinates of the point of intersection and the answer to question TT 2.b.?

TT 7. How can you check that the coordinates of the point of intersection satisfy both equations?