## Assignment - 4

## sravani sandya MD/2020/706

Abstract—This is a simple document to learn about linear forms and present it using latex, draw figures using Python, Latex.

Download all and latex-tikz codes from

svn co https://github.com/sravani706/Assignment -2.git

## 1 LINEAR FORMS

(LINEAR FORMS BY G V V SHARMA EXERCISES-Q.2.4)

1.1. Given the equation of lines passing through the point  $\binom{2}{14}$ . How many more such lines are there, and why?

2 solution

Since the given point is  $\binom{2}{14}$  the, first equation is

$$\mathbf{x} + \mathbf{y} = 16 \tag{2.1.1}$$

$$\mathbf{x} + \mathbf{y} - 16 = 0 \tag{2.1.2}$$

Second equation is

$$\mathbf{x} - \mathbf{y} = -12 \tag{2.1.3}$$

$$\mathbf{x} - \mathbf{y} + 12 = 0 \tag{2.1.4}$$

Third equation is

$$\mathbf{y} = 7\mathbf{x} \tag{2.1.5}$$

$$7\mathbf{x} - \mathbf{v} = 0 \tag{2.1.6}$$

So, we can find infinite equations because through the one point infinite lines can pass.

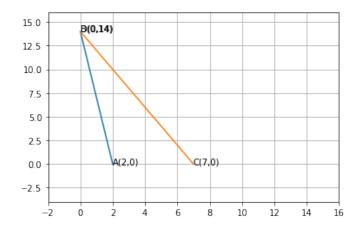


Fig. 2.1. linear forms