

Assignment - 4

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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 $\begin{pmatrix} 2 \\ 14 \end{pmatrix}$. How many more such lines are there, and why?

2 SOLUTION

Since the given point is $\begin{pmatrix} 2 \\ 14 \end{pmatrix}$ the, first equation is

$$x + y = 16 \quad (2.1.1)$$

$$x + y - 16 = 0 \quad (2.1.2)$$

Second equation is

$$x - y = -12 \quad (2.1.3)$$

$$x - y + 12 = 0 \quad (2.1.4)$$

Third equation is

$$y = 7x \quad (2.1.5)$$

$$7x - y = 0 \quad (2.1.6)$$

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

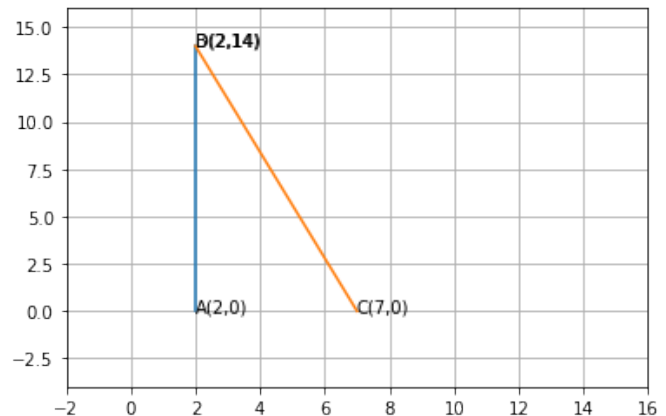


Fig. 2.1. linear forms