

# Assignment 1

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Download all python codes from

<https://github.com/neharani289/eemtech14014/codes>

and latex-tikz codes from

<https://github.com/neharani289/eemtech14014>

QUESTION No.46

Find the angle between the lines

$$(1 - \sqrt{3})x = 5$$

$$(\sqrt{3} - 1)x = -6.$$

EXPLANATION

The angle between the lines can also be expressed in terms of the normal vectors as

$$\cos \theta = \frac{n_1 n_2}{\|n_1\| \|n_2\|}$$

$$= \frac{\sqrt{3}}{2}$$

$$\theta = 30^\circ$$