

ASSIGNMENT 5

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Abstract—This document solves determinant of a matrix using its properties

Download all python codes from

[https://github.com/anjanavasudevan/
grad_schoolwork/tree/master/EE5609/
Assignment3/code](https://github.com/anjanavasudevan/grad_schoolwork/tree/master/EE5609/Assignment3/code)

and latex-tikz codes from

[https://github.com/anjanavasudevan/
grad_schoolwork/tree/master/EE5609/
Assignment3/latex](https://github.com/anjanavasudevan/grad_schoolwork/tree/master/EE5609/Assignment3/latex)

1 QUESTION No. 16 (II)

Find the equation to the circle that passes through the points:

$$\mathbf{x}_1 = \begin{pmatrix} 1 \\ 2 \end{pmatrix}, \mathbf{x}_2 = \begin{pmatrix} 3 \\ -4 \end{pmatrix}, \mathbf{x}_3 = \begin{pmatrix} 5 \\ -6 \end{pmatrix} \quad (1.0.1)$$

2 ANSWER