AI1110 assignment1(ICSE Class 10 2017)

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March 29, 2022

1 question (7b):

Use a graph paper for this question (Take 2 cms = 1 unit on both x and y axis)

- (i) Plot the following points: A(0,4), B(2,3), C(1,1) and D(2,0).
- (ii) Reflect points B, C, D on the y-axis and write down their coordinates. Name the images as B', C', D' respectively.
- (iii) Join the points A, B, C, D, D', C', B' and A in order, so as to form a closed figure. Write down the equation of the line of symmetry of the figure formed.

2 Solution:

- (i) the plot of all points in last section labelled with A,B,C,D
- (ii) As for the reflection of points B,C,D gives B',C',D' with either the coordinate geometry image formula or we can just multiply '-1' with x coordinates and get new x-coodrinates ie B'(-2,3) C'(-1,1) D'(-2,0)
- (iii)joining the points in order A, B, C, D, D', C', B' and A gives a polygon which is shown below. As reflection of B,C,D are B',C',D' wrt y-axis it can be said that x=0 is the equation of the line of symmetry.

3 PLOT:

Here B' is reflection of B wrt to y-axis(x=0) C' is reflection of B wrt to y-axis(x=0) D' is reflection of B wrt to y-axis(x=0) Line of symmetry has equation x=0.

