

Assignment I (ICSE Class 10 2018)

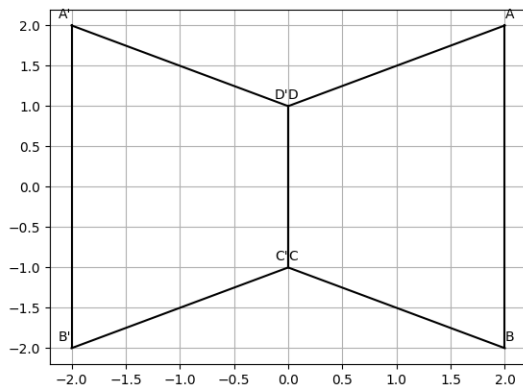
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5. c. Use graph paper for this question (Take 2cm = 1 unit along both x and y axis). ABCD is a quadrilateral whose vertices are A(2,2), B(2,-2), C(0,-1) and D(0,1).

- Reflect quadrilateral ABCD on the y-axis and name it as A'B'CD.
- Write down the coordinates of A' and B'.
- Name two points which are invariant under the above reflection.
- Name the polygon A'B'CD.

Solution:

- The plot of quadrilateral ABCD after reflection on the y-axis is as shown:



- The coordinates of A' and B' are (-2,2) and (-2,-2) respectively.
- The two points which are invariant under reflection are C(0,-1) and D(0,1).
- The polygon A'B'CD is an isosceles trapezium.