

1. June/2022/Paper_12/No.17

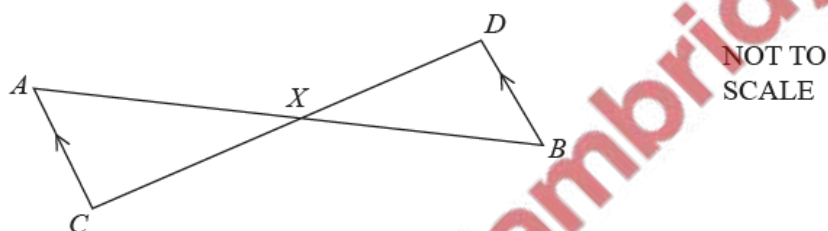
(a) Ryan says:

Each diagonal of quadrilateral Q divides it into two congruent isosceles triangles.

Draw a ring around each of the quadrilaterals in the list for which Ryan's statement is always true.

Square Rectangle Rhombus Parallelogram Trapezium Kite [1]

(b)



AXB and CXD are straight lines.

X is the midpoint of AB .

AC is parallel to DB .

Show that triangle AXC is congruent to triangle BXD .

Give a reason for each statement you make.

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[3]