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Advanced Executive Program in Cyber Law, Program in IT Law

Class 6 Mathematics Chapter 5

Exercise 5.7

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**Question 1:** Say true or false:

- |                                                                 |           |
|-----------------------------------------------------------------|-----------|
| (a) Each angle of a rectangle is a right angle.                 | (a) True  |
| (b) The opposite sides of a rectangle are equal in length.      | (b) True  |
| (c) The diagonals of a square are perpendicular to one another. | (c) True  |
| (d) All the sides of a rhombus are of equal length.             | (d) True  |
| (e) All the sides of a parallelogram are of equal length.       | (e) False |
| (f) The opposite sides of a trapezium are parallel.             | (f) False |

**Question 2:** Give reasons for the following:

- A square can be thought of as a special rectangle.
- A rectangle can be thought of as a special parallelogram.
- A square can be thought of as a special rhombus.
- Squares, rectangles, parallelograms are all quadrilateral.
- Square is also a parallelogram.

Answer:

- Because its all angles are right angle and opposite sides are equal.
- Because its opposite sides are equal and parallel.
- Because its four sides are equal and diagonals are perpendicular to each other.
- Because all of them have four sides.
- Because its opposite sides are equal and parallel.

**Question 3:** A figure is said to be regular if its sides are equal in length and angles are equal in measure. Can you identify the regular quadrilateral?

Answer: A square is a regular quadrilateral.