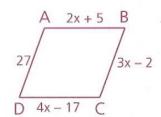
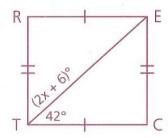
Unit 05 - Section 05

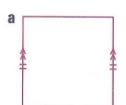
2 If $\overline{AB} \cong \overline{DC}$, show that ABCD is not a rhombus.

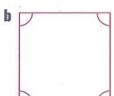


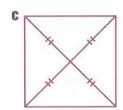
3 In order for RECT to be a rectangle, what must the value of x be?

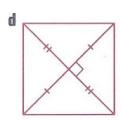


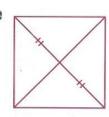
13 What is the most descriptive name for each quadrilateral below?











In Exercises 29–34, name each quadrilateral parallelogram, rectangle, rhombus, or square—for which the statement is always true.

- 29. It is equiangular.
- **30.** It is equiangular and equilateral.
- 31. The diagonals are perpendicular.
- 32. Opposite sides are congruent.
- 33. The diagonals bisect each other.
- **34.** The diagonals bisect opposite angles.

CRITICAL THINKING In Exercises 65–70, complete each statement with *always*, *sometimes*, or *never*. Explain your reasoning.

- **65.** A square is _____ a rhombus.
- **66.** A rectangle is _____ a square.
- **67.** A rectangle _____ has congruent diagonals.
- **68.** The diagonals of a square ______ bisect its angles.
- **69.** A rhombus _____ has four congruent angles.
- **70.** A rectangle _____ has perpendicular diagonals.