2.

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

A   **2x + 5**   B

27

3x - 2

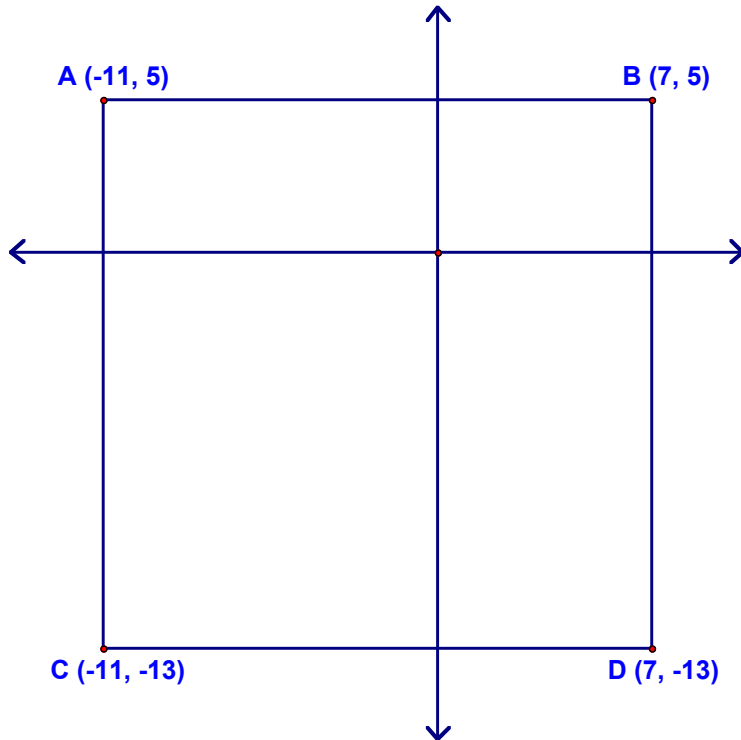D   **4x - 17**   C
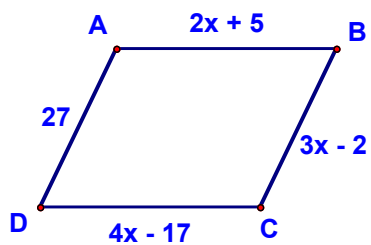
3.

m∠RTE = (2x + 6)°

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

R   E

42°

T   C
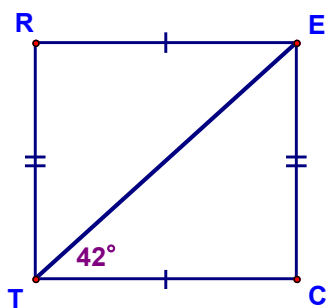
4.

Determine the most descriptive name for the quadrilateral.

A (-11, 5)   B (7, 5)

C (-11, -13)   D (7, -13)

6.

Give the most descriptive name for

    a.   **A quadrilateral with diagonals that are ⊥ bisectors of each other**

    b.   **A rectangle that is also a kite**

    c.   **A quadrilateral with opposite angles supplementary and consecutive angles supplementary**

    d.   **A quadrilateral with one pair of opposite sides congruent and the other pair of opposite sides parallel.**

8.

Given: **YTWX is a** $\square$
             $\overline{YP} \perp \overline{TW}$
             $\overline{ZW} \perp \overline{TY}$
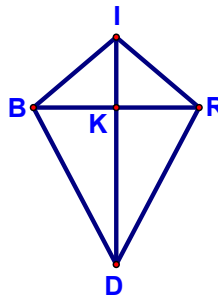 $\overline{TP} \cong \overline{TZ}$

Prove: **YTWX is a rhombus**
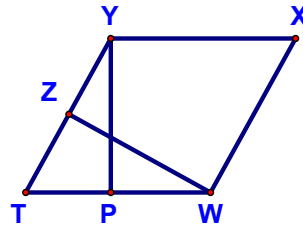
Statements	Reasons

10.

Given: $\overline{ID}$ bisects $\overline{RB}$
$\overline{BI} \cong \overline{IR}$

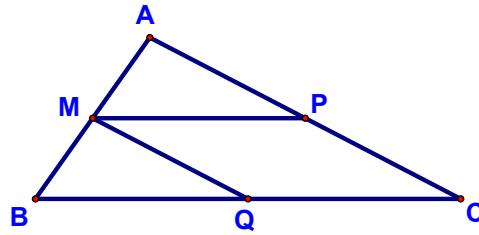**Prove:** BIRD is a kite

Statements	Reasons

18.

Given: $\overline{MP} \cong \overline{QC}$
$\overline{MP} \parallel \overline{QC}$
M is the midpoint of $\overline{AB}$

Prove: $\triangle MAP \cong \triangle BMQ$

Statements | **Reasons**

22.

M, N, O, & P are midpoint of the sides of ABCD. Make your own coordinates for A, B, C, & D.

a. Find the coordinates of M, N, O, & P

b. Find the slopes of $\overleftrightarrow{MN}$ & $\overleftrightarrow{PO}$

c. What is true about $\overleftrightarrow{MN}$ & $\overleftrightarrow{OP}$?