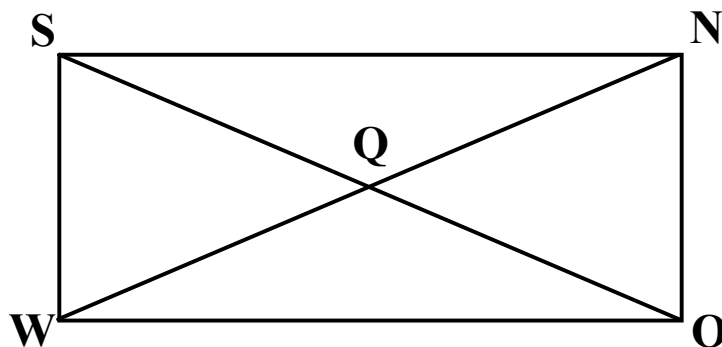


Def. Rectangle

A quadrilateral with four right angles.

**If a parallelogram is a rectangle,
then the diagonals are congruent.**



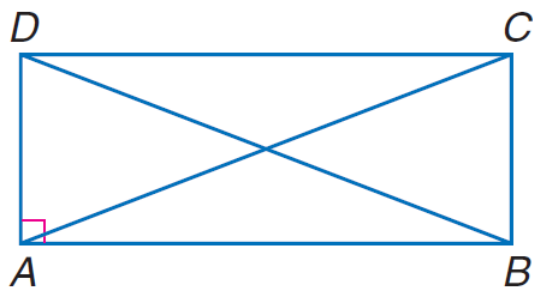
**If the diagonals of a parallelogram are
congruent, then the parallelogram is a
rectangle.**

For rectangle RECT, $m\angle E = 4x + 6$. Find x .

For rectangle MATH, $AH = 23$ and $TM = 4x + 3$. Find x .

ALGEBRA $ABCD$ is a rectangle.

If $AC = 30 - x$ and $BD = 4x - 60$,
find x .



ALGEBRA $MNQR$ is a rectangle.

If $NR = 2x + 10$ and $NP = 2x - 30$,
find MP .

