
Rectangle Diagonals
conjecture

square Diagonals
conjecture

Rhombus Diagona
conjecture

Rhombus Angles
conjecture

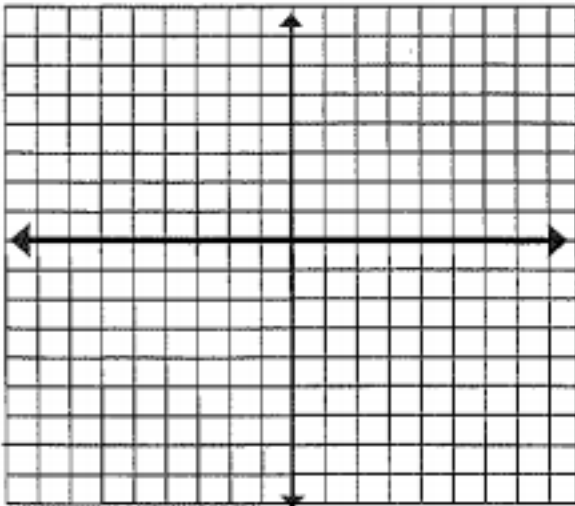
Special Parallelograms

WXYZ is a rhombus.
 $m\angle X = 24(10 - x)^\circ$
 $m\angle Z = 6(x + 15)^\circ$
 $m\angle Y = ?^\circ$

Given PQRS is a parallelogram, decide whether it is a rectangle, rhombus or square. Justify your answer using conjectures.

$P(-2, 3)$, $Q(-2, -4)$, $R(2, -4)$, $S(2, 3)$

WXYZ is a rectangle with a perimeter of $\Delta XYZ = 24$.
 $XY + YZ = 5x + 1$
 $XZ = 13 - x$
 $WY = ?$



WXYZ is a square.
 $WX = 1 - 10x$
 $YZ = 14 + 3x$
 $XY = ?$