

6-5

Practice

Form G

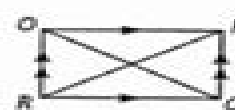
Conditions for Rhombuses, Rectangles, and Squares

Can you conclude that the parallelogram is a *rhombus*, a *rectangle*, or a *square*? Explain.

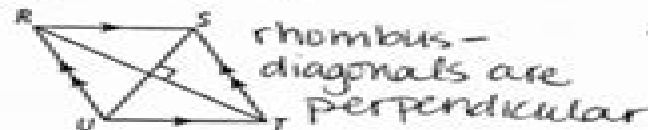
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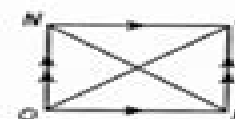


3.



4.

$$\overline{NP} = \overline{OQ}$$



For what value of x is the figure the given special parallelogram?

5. rhombus

$$\begin{aligned} 8x + 32 &= 17x - 1 \\ 33 &= 9x \\ 3 &= x \end{aligned}$$



6. rhombus



$$\begin{aligned} 4x &= 3x + 12 \\ x &= 12 \end{aligned}$$

7. rectangle



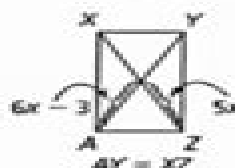
$$\begin{aligned} 2x + 6 &= 3x - 6 \\ 12 &= x \end{aligned}$$

8. rhombus



$$\begin{aligned} 5x + 5x &= 110 \\ 10x &= 110 \\ x &= 11 \end{aligned}$$

9. rectangle



$$\begin{aligned} 6x - 3 &= 5x \\ x &= 3 \end{aligned}$$

10. rectangle



$$\begin{aligned} 7x - 2 &= 5x + 1 \\ 2x &= 3 \\ x &= 1.5 \end{aligned}$$

Open-Ended Given two segments with lengths x and y ($x \neq y$), what special parallelograms meet the given conditions? Show each sketch.

11. One diagonal has length x , the other has length y . The diagonals intersect at right angles.

rhombus



12. Both diagonals have length y and do not intersect at right angles.

rectangle



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