Practice

Rectangles

ALGEBRA RSTU is a rectangle.

1. If UZ = x + 21 and ZS = 3x - 15, find US.



2. If RZ = 3x + 8 and ZS = 6x - 28, find UZ.

3. If RT = 5x + 8 and RZ = 4x + 1, find ZT.

4. If $m \angle SUT = 3x + 6$ and $m \angle RUS = 5x - 4$, find $m \angle SUT$. 39

5. If $m \angle SRT = x^2 + 9$ and $m \angle UTR = 2x + 44$, find x.

6. If $m \angle RSU = x^2 - 1$ and $m \angle TUS = 3x + 9$, find $m \angle RSU$.

GHJK is a rectangle. Find each measure if $m \angle 1 = 37$.

7. $m \angle 2$ 53

8. m \(\rm 3 \) \(\frac{7}{3} \)

10. $m \angle 5 = 5$

9. m 4 3 7 11. $m \angle 6 / \bigcirc \bigcirc$

12. $m \angle 7$ 7 4

COORDINATE GEOMETRY Determine whether BGHL is a rectangle given each set of vertices. Justify your answer.

13. B(-4, 3), G(-2, 4), H(1, -2), L(-1, -3)

OP Sides II

Consecusive Sides ____

14. B(-4, 5), G(6, 0), H(3, -6), L(-7, -1)diagonals are =

15. B(0, 5), G(4, 7), H(5, 4), L(1, 2)

No, Diagonals NOT =

16. LANDSCAPING Huntington Park officials approved a rectangular plot of land for a Japanese Zen garden. Is it sufficient to know that opposite sides of the garden plot are congruent and parallel to determine that the garden plot is rectangular? Explain.

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