Name :	 Score:
	Data
Teacher:	Date:

Triangle Inequality Theorem

State if each set of three numbers can be the lengths of the sides of a triangle.

Given are the lengths of two sides of a triangle. Find the range of lengths for the third side.



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Triangle Inequality Theorem

State if each set of three numbers can be the lengths of the sides of a triangle.

1) 2, 5, 12 No

6) 12, 9, 23 No

2) 10, 13, 18 Yes 7) 7, 13, 24 No

3) 11, 10, 22 No 8) 13, 6, 24 No

4) 11, 8, 6 Yes 9) 9, 11, 25 No

5) 10, 12, 27 No 10) 5, 7, 14 No

Given are the lengths of two sides of a triangle. Find the range of lengths for the third side.

11) 13, 11 2 < x < 24 14) 10, 8 2 < x < 18

12) 5, 13 8 < x < 18 15) 5, 4 1 < x < 9

13) 12, 10 2 < x < 22 16) 7, 10 3 < x < 17

