

Triangle Inequality Theorem Homework

Name: _____

1. Could the lengths 18, 8, 9 represent the measures of a triangle?
2. Could the lengths 3, 8, 6 represent the measures of a triangle?
3. Could the lengths 9, 7, 9 represent the measures of a triangle?
4. Could the lengths 20, 11, 6 represent the measures of a triangle?
5. Could the lengths 18, 10, 12 represent the measures of a triangle?
6. Two sides of a triangle measure 8 and 12. What are the possible lengths for the third side?
7. Two sides of a triangle measure 12 and 9. What inequality represents all the possible lengths for the third side of the triangle?

8. Two sides of a triangle measure 7 and 11. What are the possible lengths for the third side?
9. Two sides of a triangle measure 11 and 9. What inequality represents all the possible lengths for the third side of the triangle?
10. Two sides of a triangle measure 8 and 11. What are the possible lengths for the third side?