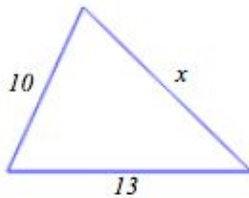# Using Triangle Inequality to Determine Possible Lengths of a Third Side:

Using triangle inequality to determine possible lengths of a third side

The side lengths of a triangle are 10, 13, and x units.

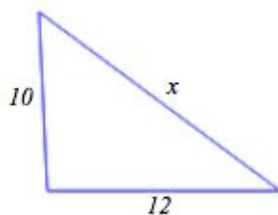(The figure above gives only one possible configuration for the triangle.)

Determine the possible values of x.
Write your answer as an inequality.
Use x only once in your inequality.

Using triangle inequality to determine possible lengths of a third side

The side lengths of a triangle are 10, 12, and x units.

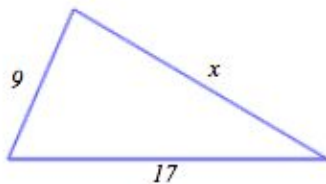(The figure above gives only one possible configuration for the triangle.)

Determine the possible values of x.
Write your answer as an inequality.
Use x only once in your inequality.

Using triangle inequality to determine possible lengths of a third side

The side lengths of a triangle are 9, 17, and x units.

(The figure above gives only one possible configuration for the triangle.)

Determine the possible values of x.
Write your answer as an inequality.
Use x only once in your inequality.