

Name : \_\_\_\_\_

## Triangle Inequality

If the measures of two sides of a triangle are given, find the range of possible measures of the third side ( $x$ ).

1) 9 in, 17 in

2) 30 yd, 11 yd

3) 4 ft, 7 ft

5) 22 yd, 18 yd

7) 34 in, 27 in

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9) Lily makes a triangular cat scratcher for her pet cat. If two of its sides, measure 8 inches and 15 inches, which of the following is the possible measure of its third side?

a) 18 inches

b) 7 inches

c) 24 inches