Name : _____

Triangle Inequality

Sheet 2

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

1) 20 ft, 14 ft

2) 21 in, 25 in

3) 31 yd, 23 yd

5) 2 in, 6 in

7) 9 ft, 26 ft

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9) Gary builds a triangular shelf using three cardboards. If he uses two cardboards of length 9 inches each, as the sides of the shelf, which of the following is the possible length of the third cardboard used as the base of the shelf?

a) 25 inches

b) 16 inches

c) 18 inches

Name : _____

Answer key

Sheet 2

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) 20 ft, 14 ft

6 ft < x < 34 ft

2) 21 in, 25 in

4 in < x < 46 in

3) 31 yd, 23 yd

8 yd < x < 5

5) 2 in, 6 in

4 in < x < 8

7) 9 ft, 26 ft

17 ft < x < 35 ft

< 40 ft

< 13 yd

13 in < x < 45 in

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