Name : _____

Triangle Inequality

If the measures of two sides of a triangle are given, determine the greatest possible whole number measure of the third side.

1) 12 ft, 18 ft

2) 5 in, 8 in

_____

_____

3) 4 yd, 33 yd

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5) 30 in, 10 in

_____

_____

7) 13 ft, 13 ft

_____

_____

9) The restaurant consists of coffee tables with triangle shaped tops, a perfect fit for the corners. Each of the two sides of the table top is 18 inches in length. What is the greatest possible third side length of the table top?

   a) 35 inches

   b) 36 inches

   c) 37 inches

Answer key

Triangle Inequality

If the measures of two sides of a triangle are given, determine the greatest possible whole number measure of the third side.

1) 12 ft, 18 ft

2) 5 in, 8 in

_____ **29 ft** _____

_____ **12 in** _____

3) 4 yd, 33 yd

_____ **36 yd** _____

_____ **t** _____

5) 30 in, 10 in

_____ **39 in** _____

_____ **d** _____

7) 13 ft, 13 ft

_____ **25 ft** _____

_____ **35 in** _____

9) The restaurant consists of coffee tables with triangle shaped tops, a perfect fit for the corners. Each of the two sides of the table top is 18 inches in length. What is the greatest possible third side length of the table top?

a) 35 inches

b) 36 inches

c) 37 inches