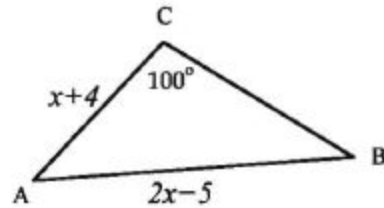




SATPREP

Assignment :Triangle Inequality

Easy



1. In $\triangle ABC$ above, which of the following must be true? 
 - a) $x < 18$
 - b) $x > 18$
 - c) $x < 9$
 - d) $x > 9$
2. If one triangle has two sides that have lengths of 3 and 8, which of the following CANNOT be the length of the third side of the triangle? 
 - a) 5
 - b) 6
 - c) 8
 - d) 9
3. A triangle has a perimeter of 27. The medium-length side is 3 more than the length of the shortest side, and the longest side is twice the length of the shortest side. Find the length of the shortest side?
 - a) 5
 - b) 6
 - c) 7
 - d) 8
4. Which of the following cannot be the lengths of the three sides of a triangle?
 - a) 6, 4, and 3
 - b) 6, 3, and 5
 - c) 6, 5, and 11
 - d) 6, 6, and 10





