HW 6/8/21

ODM CONNECT APP HOMEWORK

Date Page 6

Q1. Can a triangle be formed by line segments of lengths a, b and c, such that $a > b - c$?

Ans) Yes, a triangle can be formed by line segments of lengths a, b and c, such that $a > b - c$.

Q2. Can a triangle be formed by line segments of lengths a, b and c, such that $a = b - c$?

Ans) No, a triangle cannot be formed by line segments of lengths a, b and c, such that $a = b - c$.

Q3. The areas of parallelograms on the same base and between the same parallel lines are equal.

Q4. In a regular polygon, are all the exterior angles equal?

Ans) Yes, in a regular polygon all the exterior angles are equal.

Q5. Can the sum of the two angles of a triangle be less than the third angle?

Ans) Yes, the sum of the two angles of a triangle can be less than the third angle.

Q6. If all the sides of a polygon are equal, then all its interior angles must be equal. Is the given statement true?

Ans) No, the given statement "If all the sides of a polygon are equal, then all its interior angles must be equal" is not true.

Q7. If a circle passes through four points, then the four points are said to be Concyclic.

Q8. Two circles cannot intersect in more than two points.
[True / False]

Date
Page 3

Q9. Two quadrilaterals of equal perimeters occupy equal areas. Is this statement always true?

Ans No, the statement "Two quadrilaterals of equal perimeters occupy equal areas" is always not true.