POLYGONS . SORTED BY MR. VINCENT

1. The size of an interior angle of a regular polygon is 3*x* while its exterior is (*x* +20). Find the number of triangles that makes the polygon. (3marks)
2. The size of an interior angle of a regular polygon is 3x while its exterior angle is (x-20). Find the number of triangles that make the polygon. (3 marks)

1. The exterior angle of a regular polygon is 108 less than the interior angle. Find the

number of sides of the polygon. (3marks)

1. The interior angle of a regular Polygon is 20 more than three times the exterior angle. Determine the number of sides of the Polygon. (3marks)

1. The interior angle of a regular polygon is 1500. Determine the number of sides of the

polygon. (3marks)

1. The interior angles of a heptagon are (3p + 25), (2p – 20), (2p + 35) ,100 ,135, 150 and 125. Find P. (3 Marks)

7. The interior angles of a hexagon are 2x + 5, 4x - 5, 4x + 5, 3x, 4x - 20 and 2x. Find the value of x. (3marks)

8. The interior angle of a regular polygon is 9 times the exterior angle. How many sides

does the polygon have? (3marks)

9. Calculate the number of sides of a regular polygon which has an exterior angle

measuring 1200.

10. The ratio of the exterior angle to interior angle of a regular polygon is 1:9. Determine the

number of sides of the polygon (3marks)

1. The size of each Interior angle of a regular polygon is seven times the size of the exterior angle. Find the number of sides of the polygon. (3marks)
2. Four interior angle of a polygon are each 155, while the rest are each 160, find the

number of sides in this polygon. (3marks)

1. Three angles of a polygon are 125, 140 and 160. The remaining angles are 145 each. Calculate the sum of the interior angles of the polygon. (3 marks)
2. The exterior angle of a regular polygon is equal to one third of the interior angle. Calculate the number of number of sides of the polygon. (3 marks)
3. The size of an interior angle of a regular polygon is 4x, while exterior angle (x – 20), find the number of sides of the polygon. (3marks)
4. The sum of the interior angles of a regular polygon is 4 times the size if the exterior angle.
   1. Find the number of sides of the polygon. (2 marks)
   2. Name the polygon (1 mark)