Triangles: Worksheet-4

- 1. If $a^2 > b^2 + c^2$, then \triangle ABC is an _____ triangle.
- 2. Area of a right-angled isosceles triangle whose hypotenuse is 'd' is
- 3. 'O' is the point in the interior of the rectangle ABCD, then $OD^2 + OB^2$
- 4. If the length of two medians of a triangle are equal, then the triangle is _ _ _ _ _.
- 5. If G is centroid of $\triangle ABC$ then $\frac{AG^2 + BG^2 + CG^2}{AB^2 + BC^2 + CA^2} =$ ______
- 6. If AD is internal angular bisector of $\angle BAC$, BD : DC = 2 : 3, then AC : AB = _ _ _
- 7. If x, y, z are the mid points of an equilateral triangle ABC, then Δxyz is ____triangle.
- 8. A man goes 18 m due east and then 24 m due north. The distance from the starting point is: ______
- 9. In \triangle ABC, D and E are points on AB and AC respectively such that $\overline{DE} /\!\!/ BC$. If AD = x, AC = x + 9; AB = x + 13 and AE = x 2 then $x = ___$
- 10. If a, b, c are the lengths of the sides of a right triangle ABC and hypotenuse $C = \sqrt{2ab}$, then $\angle BAC = ____$

