# Gleapter 12 (Objectives) <br> APPLICATION OF TRIGONOMETRY <br> Textbook of Algebra and Trigonometry for Class XI 

## Fill in the blanks.

1. $\theta=$ if $\sin \theta=0.5791$.
2. The angle above the horizontal line is called
3. The angle $\qquad$ the horizontal line is called "angle of depression".
4. A triangle, which is not right, is called $\qquad$ triangle.
5. In oblique triangle $A B C ; c^{2}=$
6. According to law of $\operatorname{cosine} ; \cos \alpha=$. $\qquad$
7. $\frac{b-c}{b+c}=\frac{\tan \frac{\beta-\gamma}{2}}{\tan \frac{\beta+\gamma}{2}}$ is called
8. According to the sine of half the angles in term of the sides, $\sin \frac{\beta}{2}=$ $\qquad$
9. $\sqrt{\frac{s(s-c)}{a b}}=$
10. Area of triangle in terms of measures of its sides is given as
11. The circle passing through the vertices of a triangle is called a
12. Radius of circum circle is called
13. Circum radius is given by formula
14. $\frac{a b c}{4 \Delta}=$ $\qquad$
15. The circle drawn inside a triangle touching its three sides is called
16. Centre of inscribe circle is called $\qquad$
17. In-radius of in-circle is given by
18. A circle which touches one side of triangle externally and other two produced sides, is called $\qquad$ or $\qquad$
19. The centres of e-circles are called
20. In law of tangent $\frac{c-a}{c+a}=$
21. $\cos \frac{\beta}{2}=$ $\qquad$

01- $35^{\circ} 23^{\prime}$
04- Oblique
06- $\frac{b^{2}+c^{2}-a^{2}}{2 b c}$
09- $\cos \frac{\gamma}{2}$
11- Circum circle
14- $R$ (Circum radius)
17- $r=\frac{\Delta}{s}$
20- $\frac{\tan \frac{\gamma-\alpha}{2}}{\tan \frac{\gamma+\alpha}{2}}$
21- $\sqrt{\frac{s(s-c)}{a b}}$

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[^0]:    Provided by: Adil Rauf 乡Muhammad Nabil (F.Sc. Part I, FAZMIC Sargodha)
    Composed by: Atiqur Rehman (http://www.mathcity.tk)

