## create a list of 12th class maths questions according to CBSE board India

1.Prove that $\mathrm{a} 2+\mathrm{b} 2+\mathrm{c} 2=3 \mathrm{abc}$ if $\mathrm{a}, \mathrm{b}, \mathrm{c}$ are in geometric progression.
2.Find the sum of the first 10 terms of the G.P: $6,18,54, \ldots$
3.Find the value of a for which the quadratic equation $3 \times 2-5 a x+7=0$ has equal roots.
4.Find the sum of elements of the matrix $2 / 3>1 / 3<2 / 5$
5.Find the equation of the straight line passing through $(1,-2)$ and parallel to the line $y=2 x+1$
6. If the roots of equation $f(x)=0$ are $2,3,4$. Express $f(x)$ as the product of linear factors.
7. Prove that the surface of the right circular cone is equal to half of the circumference of its base times its height.
8.Solve for $x: x 3+5 x=39$
9.Show that the three medians of a triangle are concurrent.

10 .Find the equation of a circle with centre at $(2,-3)$ and radius 5 .
11. Find the inverse of the function $y=2 x+1$
12.Find the equation of a hyperbola with foci $(2,1)$ and $(-2,1)$.

