Quadratic Equations : Worksheet -2

1. The discriminate of $ax^2+bx+c=0$ is _ _ _ _ _ _ _ _ _ _

2. The condition for the roots of $ax^2+bx+c=0$ to be equal is _ _ _ _ _

3. Sum of roots of $4x^2=1$ is _ _ _ _ _ _ _ _ _ _

4. If $b^2-4ac<0$, the roots of $ax^2+bx+c=0$ are _ _ _ _ _ _ _ _ _ _

5. The discriminate of $ax^2-(a+b)x+b=0$ is _ _ _ _ _ _ _ _ _ _

6. If the difference of the roots of $x^2-ax+b=0$ is 1, then a^2 = _ _ _ _ _

7. If roots of $x^2-6x+k=0$ are in the ratio 1:2, then k = _ _ _ _ _ _ _ _

8. If r and s are roots of $ax^2+bx+c=0$, then $\frac{1}{r}+\frac{1}{s}$ = _ _ _ _ _ _ _ _

9. The roots of $(x+2)^2=49$ are _ _ _ _ _ _ _ _ _ _

10. If α, β are the roots of $ax^2+bx+c=0$ then the equation whose roots are $\frac{1}{\alpha} and \frac{1}{\beta}$ are _ _ _ _ _ _ _ _ _ _ _ _

11. If one root of $px^2-14x+8=0$ is six times the other, then p = _ _ _ _ _ _