1. For what values of k, the equation $9x^2 + kx + 1 = 0$ has equal roots?

2. Find the roots of the equation $x^2 + 13x + 30 = 0$.

Or

For what value (s) of 'p' quadratic equation $px^2 + 6x + 9 = 0$ has no real roots?

3. If $x = -3\sqrt{2}$, is a solution of the quadratic equation $x^2 + kx - 6 = 0$ find the value of k.

4. Determine whether the quadratic equation $3x^2 + 2\sqrt{5}\,x - 5 = 0$ has real roots or not. If yes, fi them.

Or

For what value (s) of k, the quadratic equation $kx^2 + 6x + 1 = 0$ has real roots.