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## QUADRATIC EQUATIONS CLASS 10 ASSIGNMENT 1

Find the roots of the following quadratic equations by factorisation method:

1.  $2x^2 + 11x - 21 = 0$

2.  $x^2 - 2x + \frac{7}{16} = 0$

3.  $72x^2 - \sqrt{3}x - 3 = 0$

4.  $3\sqrt{2}x^2 - 10x + 4\sqrt{2} = 0$

5.  $9a^2x^2 + 5abx - 4b^2 = 0$

6.  $x^2 - (a + b)x + ab = 0$

7.  $\frac{1}{a+b+x} = \frac{1}{a} + \frac{1}{b} + \frac{1}{x}$

8.  $x^2 + \left(\frac{a}{a+b} + \frac{a+b}{a}\right)x + 1 = 0$

9.  $p^2x^2 + (p^2 - q^2)x - q^2 = 0$

10.  $\sqrt{x+6} - \sqrt{x+2} = 4$