



Class 10 Mathematics – Quadratic Equations Worksheet (Medium 2)

Name: _____

Date: _____

Q1. Find roots of $3x^2 - 2\sqrt{6}x + 2 = 0$.

Answer: Repeated roots = $\sqrt{2/3}$.

Q2. Find roots of $2x^2 - x + 1/8 = 0$.

Answer: Roots are $1/4$ and $1/4$.

Q3. Find discriminant of $3x^2 - 4\sqrt{3}x + 4 = 0$.

Answer: Discriminant = 0.

Q4. State nature of roots of $2x^2 - 3x + 5 = 0$.

Answer: No real roots.

Q5. Find k for equal roots: $2x^2 + kx + 3 = 0$.

Answer: $k = \pm 2\sqrt{6}$.

Q6. Find k for equal roots: $kx(x-2) + 6 = 0$.

Answer: $k = 3/2$.