

Problems involving the use of the discriminant $b^2 - 4ac$

7. Determine the range of values of p if the quadratic equation $2x^2 - 1 = 5x + p$ has two different roots.

Ans: $2x^2 - 1 = 5x + p$
 $2x^2 - 5x - (p + 1) = 0$
 $a = 2, b = -5, c = -(p + 1)$
 $b^2 - 4ac = (-5)^2 - 4(2)[-(p + 1)]$
 $= 25 + 8(p + 1)$
 $= 25 + 8p + 8$

For two different roots, $b^2 - 4ac > 0$

$$33 + 8p > 0$$

$$p > -\frac{33}{8}$$

8. Find the value of q if the quadratic equation $2x^2 + 12x = 2q - 9$ has two equal roots.

Ans: $2x^2 + 12x = 2q - 9$
 $2x^2 + 12x + 9 - 2q = 0$
 $a = 2, b = 12, c = 9 - 2q$
 $b^2 - 4ac = (12)^2 - 4(2)(9 - 2q)$
 $= 144 - 72 + 16q$
 $= 72 + 16q$

For two equal roots, $b^2 - 4ac = 0$

$$72 + 16q = 0$$

$$q = -\frac{9}{2}$$

9. If the quadratic equation $4mx^2 - 3nx + m = 0$ has two equal roots, find the ratio $n : m$. Hence, solve the equation.

Ans: $4mx^2 - 3nx + m = 0$
 $b^2 - 4ac = (-3n)^2 - 4(4m)(m)$
 $= 9n^2 - 16m^2$

For two equal roots, $b^2 - 4ac = 0$

$$9n^2 - 16m^2 = 0$$

$$9n^2 = 16m^2$$

$$\left(\frac{n}{m}\right)^2 = \frac{16}{9}$$

$$\frac{n}{m} = \frac{4}{3}$$

$$n : m = 4 : 3$$

For $\frac{n}{m} = \frac{4}{3}$, $3n = 4m$

Substitute $3n = 4m$ into the equation.

$$4mx^2 - 4mx + m = 0$$

$$m(4x^2 - 4x + 1) = 0$$

$$4x^2 - 4x + 1 = 0$$

$$(2x - 1)^2 = 0$$

$$2x - 1 = 0$$

$$x = \frac{1}{2}$$

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J Elliott



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PRACTICE QUESTIONS Practice Questions provide students with a wide range of questions for further practice The questions are classified into three levels of difficulty questions require students to use specific skills and concepts in the chapter directly to solve problems questions require students to apply their skills and concepts to solve problems questions require students to apply various skills and concepts including the use of problem solving skills to solve problems

Revision Exercise The Revision Exercise is found after every few chapters to help students to recall and consolidate all the concepts learnt in these chapters

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