**08/06/2020 JESUS AND MARY SCHOOL AND COLLEGE**  **MODULE-6**

**CLASS-10 (MATHS)**

**CHAPTER NAME– QUADRATIC EQUATIONS IN ONE VARIABLE**

**Note: Please refer to the video uploaded for this chapter.**

**WORKSHEET-2**

1. Solve the equation$ 25x^{2}+30x+7=0 $using quadratic formula.
2. Solve the equation$ \sqrt{3}x^{2}+10x-8\sqrt{3}=0 $using quadratic formula.
3. Solve the equation$ \frac{x+1}{x+3}=\frac{3x+2}{2x+3} $using quadratic formula.
4. Solve the equation$ \frac{1}{x}+\frac{1}{x-2}=3,x\ne 0,2 $using quadratic formula.$ $
5. Solve the quadratic equation$ x^{2}-5x-10=0$ for *x* and give your answer correct

 to 2 decimal places.

1. Solve the quadratic equation $x^{2}-4x-8=0$ and give your answer correct to two

 significant figures.

1. Find the discriminant of the quadratic equation $2x^{2}-3x+5=0$ and hence find the

 nature of roots.

1. Discuss the nature of the roots of the quadratic equation $2\sqrt{3}x^{2}-5x+\sqrt{3}=0$.
2. Without solving the quadratic equation $x^{2}+\left(p-3\right)x+p=0 $, find the value of ‘*p’*

for which the equation has real and equal roots.

1. Find the value(s) of *m* for which the following quadratic equation has real and equal

 roots:

$$x^{2}+2\left(m-1\right)x+\left(m+5\right)=0$$

**Note**- **Please do this assignment in your copies. It will be checked when the school re-opens.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***