

# Islamabad Model College for Boys H-9, Islamabad

Home Assignment during Pandemic Closure November-December 2020-21

Note:-Submission Date is first week after January 11, 2021 or whenever the college will re-open

Class: First Year

Subject: Business Mathematics

## Assignment for Week 1

Q1) Short Questions:

- Solve for  $x$ ,  $\frac{1}{x+3} - \frac{1}{x-3} = 3$
- Find three consecutive even integers whose sum is 228.
- Solve the equation  $2x^2 + 3x - 8 = 0$

Q2) Long Questions:

- Solve by completing square  $9x^2 - 6x + \frac{5}{9} = 0$
- A garden contains 90 trees. The number of trees in each is 3 more than twice the number of rows. Find the number of rows and number of trees per row.

## Assignment for Week 2

Q1) Short Questions:

- Solve for  $x$ ,  $\frac{2x-5}{3} - \frac{3x-1}{4} = \frac{2}{3}$
- The sum of two numbers is 148. The larger number is two less than five times the smaller number. Find the two numbers.
- Solve by completing square  $2x^2 + 4x - 3 = 0$

Q2) Long Questions:

- Solve for  $x$ ,  $\sqrt{2x-1} - \sqrt{x-1} = 1$
- Solve for "x" and "y"  $2x-y=-5$ ,  $x+3y=29$

## Assignment for Week 3

Q1) Short Questions:

- Two numbers differ by 7 and have a product of 120. What are they?
- One machine plows a field in 4 days, another does it in 6 days.  
How long does it take using both machines?
- Solve for  $x$ ,  $\frac{1}{2}(3x+6) - \frac{1}{3}(2x-4) = 20$

Q2) Long Questions

- Solve for  $x$  and  $y$   $3x+4y=24$ ,  $\frac{x}{3} + \frac{y}{4} = 4$
- If a bird flies 40 km/hr with the wind, but only 10 km/hr against the wind, what is the rate of bird in still air? What is the rate of wind?