#### Extended Mathematics

Topic: Algebra -2

Year :May 2013 -May 2022

Paper - 2 Questions

#### Question 1

Rearrange  $y = \sqrt{8 + \frac{4}{y}}$  to make x the subject.

[4] Answer x = .....

#### Question 2

Write as a single fraction in its simplest form.

$$\frac{x+3}{x-3} = \frac{x-1}{x+1}$$

Answer ......[4]

#### Question 3

Solve  $3n + 23 \le n + 41$ .

[4] Answer ....

#### Question 4

The mass,  $m_r$  of a sphere varies directly with the cube of its radius,  $r_r = 160$  when r = 2.

Find m when r = 5.

#### Question 5:

Solve  $6x + 3 \le x \le 3x + 9$  for integer values of x.

Answer ......[4]

#### Question 6

y is inversely proportional to  $x^3$ . y = 5 when x = 2.

Find y when x = 4.

Answer y = [3]

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