

Extended Mathematics  
Topic : Algebra -2  
Year :May 2013 -May 2022  
Paper - 2  
Questions

Question 1

Rearrange  $y = \sqrt{8 + \frac{4}{x}}$  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  $3m + 23 < n + 41$ .

[4] Answer ..... [4]

Question 4

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

Find  $m$  when  $r = 5$ .

Answer  $m =$  ..... [3]

Question 5

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

Answer ..... [4]

Question 6

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

Find  $y$  when  $x = 4$ .

Answer  $y =$  ..... [3]

# Igcse Past Papers Maths

**Victor M. Corman**



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