

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 $3n + 23 < n + 41$.

[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]

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