



# MATHS

BOOKS - INDEPENDENTLY PUBLISHED

MATHS (ENGLISH)

SOLVING POLYNOMIAL INEQUALITIES

## Examples

1. Solve the inequality

$$(x - 1)(x + 4)(x + 2) < 0.$$

A.  $(-\infty, -4) \cup (-2, 1)$

B.

C.

D.

**Answer:**



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2. Solve the inequality

$$P(x) = x^3 - 4x^2 + x + 4 > 0.$$



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3. Solve the inequality

$$Q(x) = x^3 - 4x^2 + 4x > 0.$$



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## Exercises

1. Which of the following is equivalent to

$$3x^2 - x < 2?$$

A.  $-\frac{3}{2} < x < 1$

B.  $-1 < x < \frac{2}{3}$

C.  $-\frac{2}{3} < x < 1$

D.  $-1 < x < \frac{3}{2}$

**Answer: C**



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2. Solve  $x^5 - 3x^3 + 2x^2 - 3 > 0$ .

A.  $(-\infty, -0.87)$

B.  $(-1.90, -0.87)$

C.  $(-1.90, -0.87) \cup (1.58, \infty)$

D.  $(-0.87, 1.58)$

**Answer: C**



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**3.** The number of integers that satisfy the inequality  $x^2 + 48 < 16x$  is

A. 0

B. 4

C. 7

D. an infinite number

**Answer: C**



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