

$\frac{1}{2\sqrt{3} - \sqrt{5}}$ के हर का परिमेयकरण करने के लिए गुणनखण्ड होगा :

- (A) $\sqrt{5} - 2\sqrt{3}$ (B) $\sqrt{3} + 2\sqrt{5}$
(C) $\sqrt{12} + \sqrt{5}$ (D) इनमें से कोई नहीं।

2. Which of the following is **not** a polynomial ?

- (A) 3 (B) $3x^2 + \sqrt{5}x$ (C) $x^2 + \frac{1}{x^2} - 4$ (D) $\pi t^7 - 3t^2 + 4$

निम्न में से कौन सा बहुपद नहीं है ?

- (A) 3 (B) $3x^2 + \sqrt{5}x$ (C) $x^2 + \frac{1}{x^2} - 4$ (D) $\pi t^7 - 3t^2 + 4$

3. What is the coefficient of x^2 in the polynomial $\frac{\pi}{6}x^2 - 3x + 4$?

- (A) -3 (B) 4 (C) $\frac{\pi}{6}$ (D) 0

बहुपद $\frac{\pi}{6}x^2 - 3x + 4$ में x^2 का गुणांक है :

- (A) -3 (B) 4 (C) $\frac{\pi}{6}$ (D) 0

4. If $p(x) = 2x^3 - 3x^2 + 4x - 2$, then $p(-1)$ is :

- (A) -2 (B) -11 (C) 0 (D) 1

यदि $p(x) = 2x^3 - 3x^2 + 4x - 2$ है, तो $p(-1)$ है :

- (A) -2 (B) -11 (C) 0 (D) 1

5. In ΔABC , $\angle A = \angle B/2 = \angle C/6$. Then the measure of $\angle A$ is :

- (A) 60° (B) 30° (C) 40° (D) 20°

ΔABC में, $\angle A = \angle B/2 = \angle C/6$, तो $\angle A$ का मान है :

Maths Question Paper Grade 9 2014 November

**Robert Reys, Mary Lindquist, Diana V.
Lambdin, Nancy L. Smith, Anna
Rogers, Leicha Bragg, Audrey
Cooke, Melissa Fanshawe, Mark Gronow**

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Helping Children Learn Mathematics, 5th Australian Edition Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Leicha Bragg, Audrey Cooke, Melissa Fanshawe, Mark Gronow, 2025-10-10 *Psychology and Mathematics Education* Gila Hanna, Laura Macchi, Karin Binder, Laura Martignon, Katharina Loibl, 2023-09-05 Modern Mathematics is constructed rigorously through proofs based on truths which are either axioms or previously proven theorems Thus it is par excellence a model of rational inquiry Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program In Simon s bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity

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