

১৫। $x^2 - \sqrt{5}x + 1 = 0$ হলে $x + \frac{1}{x} =$ কত?

- (ক) $-2\sqrt{5}$ (খ) $-\sqrt{5}$
(গ) $\sqrt{5}$ (ঘ) $5\sqrt{5}$

১৬। $x + y = 6$ এবং $x - y = 4$ হলে $5xy$ এর মান কত?

- (ক) 16 (খ) 24
(গ) 25 (ঘ) 36

১৭। $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{3, 5, 6, 7\}$ হলে A র সমান কত হবে?

- (ক) $\{1, 2, 4\}$ (খ) $\{2, 4, 5\}$
(গ) $\{2, 4, 6\}$ (ঘ) $\{3, 5, 6, 7\}$

১৮। $A = \{3, 4, 5\}$ এবং $B = \{4, 5, 7\}$ হলে—

- i. $A \cup B = \{3, 4, 5, 7\}$
ii. $A \cap B = \{4, 5\}$
iii. $A \subset B$

নিচের কোনটি সঠিক?

- (ক) i ও ii (খ) i ও iii
(গ) ii ও iii (ঘ) i, ii ও iii

১৯। $x^2 - x - 42$ এর উৎপাদকে বিশ্লেষিত রূপ নিচের কোনটি?

- (ক) $(x-6)(x-7)$
(খ) $(x-6)(x+7)$
(গ) $(x+6)(x+7)$
(ঘ) $(x-7)(x+6)$

২০। কোনো বিন্দুটি x -অক্ষের উপর অবস্থিত?

- (ক) $(0, -4)$ (খ) $(-4, 0)$
(গ) $(0, 3)$ (ঘ) $(3, -1)$

২১। কোন প্রকৃত ভগ্নাংশের লব ও হরের যোগফল 14 এবং বিয়োজক 8 হলে, ভগ্নাংশটি নিচের কোনটি?

- (ক) $\frac{5}{9}$ (খ) $\frac{9}{5}$
(গ) $\frac{3}{11}$ (ঘ) $\frac{11}{3}$

২২। $m^2 - 6m - 1 = 0$ হলে $m^2 + \frac{1}{m^2} =$ কত?

- (ক) 32
(খ) 34
(গ) 36
(ঘ) 38

২৩। একটি সমকোণী ত্রিভুজের বাহুসমূহের ব্যাসার্ধ 4 সে.মি. এবং উচ্চতা 6 সে.মি.। ত্রিভুজটির বহু পৃষ্ঠের ক্ষেত্রফল কত? ($\pi = 3.14$)

- (ক) 75.36 বর্গ সে.মি.
(খ) 150.72 বর্গ সে.মি.
(গ) 226.08 বর্গ সে.মি.
(ঘ) 301.44 বর্গ সে.মি.

নিচের চিত্র অনুসারে ২৪ ও ২৫নং প্রশ্নের উত্তর দাও।



ABCD বর্জাক্ষেত্রের কর্ণদ্বয় 'O' বিন্দুতে মিলিত হয়েছে এবং $BC = 6$ cm.

২৪। $\angle AOB =$ কত?

- (ক) 30° (খ) 45°
(গ) 60° (ঘ) 90°

২৫। AC এর দৈর্ঘ্য কত?

- (ক) 6 সে.মি. (খ) $6\sqrt{2}$ সে.মি.
(গ) $9\sqrt{2}$ সে.মি. (ঘ) 12 সে.মি.

২৬। যে চতুর্ভুজের দুই জোড়া সম্মিলিত বাহু সমান তাকে কী বলে?

- (ক) অয়ত (খ) বর্গ
(গ) ঘূর্ণি (ঘ) সামান্তরিক

২৭।



ABC ত্রিভুজের ক্ষেত্রফল কত?

- (ক) 24 বর্গ সে.মি. (খ) 36 বর্গ সে.মি.
(গ) 48 বর্গ সে.মি. (ঘ) 60 বর্গ সে.মি.

২৮। একটি ত্রিভুজের বাহুদ্বয়ের অনুপাত $x : x : x\sqrt{2}$ হলে, এর বৃহত্তম কোণটির মান কত?

- (ক) 80° (খ) 85°
(গ) 90° (ঘ) 120°

২৯। চতুর্ভুজের চারটি কোণের সমষ্টি কত?

- (ক) 360° (খ) 300°
(গ) 270° (ঘ) 180°

৩০। একটি ট্র্যাপিজিয়ামের সমান্তরাল বাহু দুইটির দৈর্ঘ্য যথাক্রমে 13 সে.মি. এবং 8 সে.মি.। সমান্তরাল বাহুদ্বয়ের লম্ব দূরত্ব 4 সে.মি. হলে ট্র্যাপিজিয়ামটির ক্ষেত্রফল কত বর্গ?

- (ক) 42 বর্গ সে.মি. (খ) 52 বর্গ সে.মি.
(গ) 84 বর্গ সে.মি. (ঘ) 104 বর্গ সে.মি.

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web a linear feedback shift register lfsr is a shift register in which some of its outputs are connected to the input through some logic gates typically an xor a wide variety of bit patterns can be generated inexpensively including pseudo random sequences can be used as a noise generator

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web in computing a linear feedback shift register lfsr is a shift register whose input bit is a linear function of its previous state the most commonly used linear function of single bits is exclusive or xor thus an lfsr is most often a shift register whose input bit is driven by the xor of some bits of the overall shift register value

lfsr cryptanalysis of linear feedback shift registers - Mar 22 2022

web feb 17 2013 the berlekamp massey algorithm is an iterative algorithm that solves the following problem given a sequence $s_0 s_1 s_2 \dots s_{n-1}$ of elements of a field find the shortest linear feedback shift register lfsr that generates this sequence here lfsr is a linear array of n elements with initial value