

০১ সেট

গণিত (সৃজনশীল)

[২০২০ সালের সিলেবাস অনুযায়ী]

বিষয় কোড :

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সময়—২ ঘণ্টা ৩০ মিনিট

পূর্ণমান—৭০

[দ্রষ্টব্য : ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। ক বিভাগ হতে দুটি, খ বিভাগ হতে দুটি, গ বিভাগ হতে দুটি এবং ঘ বিভাগ হতে একটি করে মোট সাতটি প্রশ্নের উত্তর দিতে হবে।]

ক বিভাগ—বীজগণিত

সংখ্যক

১। $A = \{x \in \mathbb{Z} : x^2 < 9\}$

$B = \{x \in \mathbb{N} : x \text{ মৌলিক সংখ্যা এবং } 1 < x \leq 5\}$

$S = \{(x, y) : x \in A, y \in B \text{ এবং } y - x = 1\}$

$f(x) = \frac{4x+1}{4x-1}$

(ক) $M = \{12, 15\}$, $N = \{15, a\}$ হলে $P(M \cap N)$ নির্ণয় কর।

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(খ) S অবয়বে তালিকা পদ্ধতিতে প্রকাশ করে এর রেঞ্জ নির্ণয় কর।

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(গ) $\frac{f(x+2)-1}{f(x-2)-1} = -1$ হলে x এর মান নির্ণয় কর।

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২। $x^8 - 2x^4 + 1 = 0$, $x > 0$

$A = p + q$ এবং $B = p^2 - q^2$

(ক) উৎপাদকে বিশ্লেষণ কর : $y^4 - 79y^2 + 1$

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(খ) $\frac{3}{2} \left(x^3 + \frac{1}{x^3} \right)$ এর মান নির্ণয় কর।

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(গ) $A = \sqrt{7}$, $B = \sqrt{35}$ হলে প্রমাণ কর যে, $\frac{1}{3} (p^3q + pq^3) = 1$

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৩। (i) $3 + 6 + 12 + \dots$ ধারাটির প্রথম n সংখ্যক পদের সমষ্টি 1533(ii) একটি সমান্তর ধারার p তম পদ q^2 এবং q তম পদ p^2 (ক) $7 + 10 + 13 + 16 + \dots$ ধারাটির কোন পদ 160 তা নির্ণয় কর।

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(খ) n এর মান নির্ণয় কর।

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(গ) সমান্তর ধারাটির $(p-1+q)$ তম পদ নির্ণয় কর।

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[পর পৃষ্ঠা দ্রষ্টব্য]

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TD Snyder



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web sample learning goals use the number of protons neutrons and electrons to draw a model of the atom identify the element and determine the mass and charge predict how addition or subtraction of a proton neutron or electron

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web purposes objectives in this lab you will be able to make atom models that show stable atoms or ions use given information about subatomic particles to a identify an element and its position on the periodic table b draw models of atoms using build an atom phet sim c determine if the model is for a neutral atom or an ion

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web try out different models by shooting light at the atom check how the prediction of the model matches the experimental results how did scientists figure out the structure of atoms without looking at them