

[দ্রষ্টব্য : প্রতিটি বিভাগ হাতে কমপক্ষে ১টি করে নিয়ে যে কোনো ৬টি প্রশ্নের উত্তর দাও। ডান পার্শ্বস্থ সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপিত।]

১. নাসিমা বেগম কোনো ব্যাংক থেকে ৫,০০০ টাকা জমা রেখে ৩ বছর পর মুনাফাসহ ৬,২০০ টাকা পেয়েছেন।

ক. সরল মুনাফার হার নির্ণয় কর। ২

খ. আরও ২ বছর পর মুনাফা-আসল কত হবে? ৪

গ. ব্যাংকে জমাকৃত টাকা একই হারে চক্রবৃদ্ধি মুনাফায় জমা রাখলে ৩ বছর পর চক্রবৃদ্ধি মূলধন কত হতো? ৪

২. একটি আয়তাকার চৌবাচ্চার দৈর্ঘ্য ৫.৫ মিটার এবং প্রস্থ ৪ মিটার। প্রস্থ উচ্চতার দ্বিগুণ। এর চারপাশ ১.৫×১.৫ মিটার^২ বর্গাকার পাথর দ্বারা বাঁধানো।

ক. চৌবাচ্চাটির তলার ক্ষেত্রফল নির্ণয় কর। ২

খ. উক্ত চৌবাচ্চাটি পানি ভর্তি থাকলে পানির আয়তন কত লিটার এবং ওজন কত কিলোগ্রাম হবে? ৪

গ. চৌবাচ্চার ভিতরের চারপাশের তলা বাঁধাতে কতটি পাথর লাগবে? ৪

খ বিভাগ—বীজগণিত

৩. $x^2 - y^2$, $2x + 2y$ এবং $2x^2y + 2xy^2$ তিনটি বীজগাণিতীয় রাশি।

ক. ১ম রাশির বর্গ নির্ণয় কর। ২

খ. রাশি তিনটির ল.সা.গু. নির্ণয় কর। ৪

গ. ২য় রাশি = ৬ এবং $xy = -4$ হলে $x^3 - y^3$ এর মান নির্ণয় কর। ৪

৪. দুইটি সংখ্যার প্রথমটির তিনগুণের সাথে দ্বিতীয়টি যোগ করলে ১৭ হয়।

আবার প্রথমটির সাথে দ্বিতীয়টির তিনগুণ যোগ করলে ১৯ হয়।

ক. চলকের মাধ্যমে সমীকরণ দুটি গঠন কর। ২

খ. প্রাপ্ত সমীকরণদ্বয়কে প্রতিস্থাপন পদ্ধতিতে সমাধান কর। ৪

গ. সমীকরণদ্বয়কে লেখচিত্রের মাধ্যমে সমাধান কর। ৪

৫. $A = \{x : x, \text{জোড়সংখ্যা এবং } 2 < x < ১৬\}$,

$B = \{x : x, ১২ \text{ এর গুণনীয়ক}\}$

এবং $C = \{x : x, ১৫ \text{ এর মৌলিক গুণনীয়ক}\}$

ক. C সেটকে তালিকা পদ্ধতিতে প্রকাশ কর। ২

খ. $A \cap B$ এবং $A \cup B$ নির্ণয় কর। ৪

গ. দেখাও যে, $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$ । ৪

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web zemax 1 introduction microlens arrays have been applied in many electro optical and micro optical systems such as flexible light field smart phones¹ solar concentrators² data storage³ and integral imaging 3d displays⁴ etc these microlens arrays are typically composed of microlens cells arranged in a deterministic pattern⁵ the

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web i set up a hybrid model including sc source and focusing lens and nsc microlens array lenslet array 1 to generate a

uniform line transversely perpendicular to beam propagation in a certain distance now i want to optimize the microlens toric and aspheric coefficient parameters to achieve the best line uniformity and smallest line width

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web sep 24 2020 microlens arrays are the key component in imaging systems because the systems exhibit some excellent optical properties such as large fov angles and low aberration and distortion 6 zemax llc

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web mar 31 2021 zemax llc thanks dr reinhard voelkel of süss microoptics sa for the experimental data used in this article setting up the initial design this article describes a commercial fiber coupler which couples two pieces of corning smf 28e fiber using süss microoptics fc q 250 microlens arrays the manufacturers data is as follows

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web nov 3 2015 with optical sensor arrays tiny lens systems serve to focus and concentrate the light onto the photodiode surface instead of allowing it to fall on non photosensitive areas of the pixel device fill factor area occupied by the microlens arrays mostly the lens shape is cylindrical or spherical array size strongly depends on the applications

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web oct 16 2021 help me please to model the lens array in sequential mode i mean some lens no microlens in the same plane on the circle radius icon best answer by ray the sequential dll is quite easy to modify non sequential are more complex there are more array types available in this forum post community zemax