

SECTION 3 2 PROBABILITY GENETICS

ANSWERS

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Section 3.2 Probability in Genetics

Question 1: A heterozygous tall pea plant (Tt) is crossed with a short pea plant (tt). What is the probability of obtaining a tall pea plant in the offspring?

Answer: 0.5 or 50%

Question 2: In a population of flies, 40% have white eyes and 60% have red eyes. If two flies mate randomly, what is the probability that their offspring will have red eyes?

Answer: $0.6 \times 0.6 = 0.36$ or 36%

Question 3: A child inherits one copy of an allele for brown hair from each parent. The mother has brown hair, and the father has blonde hair. What is the probability that the child will have blonde hair?

Answer: 0

Question 4: A gene has two alleles, A and a. A homozygous individual (AA) expresses the dominant phenotype, while a heterozygous individual (Aa) expresses the recessive phenotype. What is the probability of a heterozygous individual producing an a allele in their gametes?

Answer: 0.5 or 50%

Question 5: A family has three children. The probability of having a boy is 0.5, and the probability of having a girl is also 0.5. What is the probability of having exactly two boys in the family?

Answer: $0.5 \times 0.5 \times 0.5 \times 0.5 = 0.0625$ or 6.25%

Software Engineering by Technical Publication: Q&A

What is software engineering by technical publication?

Software engineering by technical publication involves creating, managing, and maintaining technical documents related to software development. These documents include requirements specifications, design documents, user manuals, and test plans. Technical writers collaborate with software engineers throughout the development process to ensure the documentation accurately reflects the software's functionality and meets the needs of end-users.

Why is technical publication important in software engineering?

High-quality technical documentation is essential for several reasons. It helps developers understand the software's requirements, design, and implementation, enabling them to develop and test the software effectively. It also provides end-users with clear instructions and guidance on how to use the software, reducing support costs and improving user satisfaction.

What are the key responsibilities of a technical writer in software engineering?

Technical writers in software engineering are responsible for:

- Analyzing and interpreting software requirements to create functional specifications
- Developing user-friendly manuals and documentation that explain the software's features and usage
- Writing technical documents that support the software's design, development, and testing
- Collaborating with software engineers to ensure documentation accuracy and relevance

- Providing training and support to end-users on software usage and functionality

What are the benefits of using a technical writer in software engineering?

Technical writers bring several benefits to software engineering projects:

- Reduced development and support costs through improved communication and documentation
- Increased software quality through accurate and comprehensive documentation
- Improved user satisfaction through user-friendly manuals and instructions
- Enhanced software maintainability through well-documented code and design

How can I become a technical writer in software engineering?

To become a technical writer in software engineering, consider the following qualifications:

- Strong communication and writing skills in technical subjects
- Understanding of software engineering concepts and methodologies
- Experience in using technical writing tools and documentation systems
- Ability to translate complex technical information into clear and accessible language

The Genius Wars: Catherine Jinks' Captivating Trilogy

Catherine Jinks' "The Genius Wars" trilogy has captivated readers worldwide with its gripping tale of war, intrigue, and extraordinary abilities. Here are some key questions and answers about the series:

Q1: What is "The Genius Wars" about? A1: The trilogy follows the story of Lozen, a young woman gifted with the power to see the future, and her efforts to navigate a world torn apart by war. She joins the Genius Guild, an elite organization of prodigies, and must confront the consequences of her visions as she fights against

the relentless enemy known as the Grey.

Q2: Who is Lozen? A2: Lozen is the protagonist of the series and a member of the Genius Guild. She possesses the ability to see into the future, which makes her a valuable asset to her allies. However, her visions often lead to difficult choices and moral dilemmas.

Q3: What is the conflict in the trilogy? A3: The series revolves around the Genius Wars, a conflict between the Genius Guild and the Grey. The Grey is a powerful and enigmatic enemy that seeks to control the world and suppress the powers of the geniuses.

Q4: What is the theme of "The Genius Wars"? A4: The trilogy explores themes such as the power of knowledge, the responsibility that comes with great abilities, and the complexities of war. It also examines the consequences of choices and the importance of compassion.

Q5: What makes "The Genius Wars" unique? A5: Jinks' writing is praised for its intricate world-building, well-developed characters, and thought-provoking themes. The trilogy combines elements of fantasy, science fiction, and historical fiction, creating a captivating and immersive reading experience.

Soal dan Kunci Siap Ujian Tulis Nasional (UTN) Pendidikan Profesi Guru (PPG) 2017 Bidang Studi Matematika

Ujian Tulis Nasional (UTN) PPG merupakan salah satu persyaratan yang harus dipenuhi oleh calon guru untuk memperoleh Sertifikat Profesi Guru (SPG). Pada tahun 2017, UTN PPG juga diselenggarakan untuk bidang studi Matematika. Guna mempersiapkan peserta ujian, berikut disajikan beberapa soal dan kunci jawabannya.

Soal 1

Tentukan nilai limit berikut:

$$\lim_{x \rightarrow 2} \frac{x^2 - 4}{x - 2}$$

Jawaban: 4

Soal 2

Carilah persamaan garis singgung pada grafik fungsi $y = x^3 - 2x^2 + 1$ di titik $(1, 0)$.

Jawaban: $y = 3x - 2$

Soal 3

Diketahui matriks $A = \begin{bmatrix} 2 & -1 \\ 1 & 3 \end{bmatrix}$. Tentukan nilai invers matriks A jika ada.

Jawaban: $\begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$

Soal 4

Sebuah limas tegak memiliki alas berbentuk persegi panjang dengan panjang 12 cm dan lebar 8 cm. Jika tinggi limas 10 cm, tentukan volume limas tersebut.

Jawaban: 480 cm^3

Soal 5

Suatu kegiatan ekstrakurikuler diikuti oleh 70 siswa. Di antara siswa tersebut, 40 siswa mengikuti ekstrakurikuler basket, 35 siswa mengikuti ekstrakurikuler voli, dan 15 siswa mengikuti keduanya. Berapa jumlah siswa yang tidak mengikuti kedua ekstrakurikuler tersebut?

Jawaban: 15 siswa

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