

SERIES CIRCUIT PROBLEMS EPISODE 903 ANSWER KEY

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Series Circuit Problems: Episode 903 Answer Key

Question 1:

A circuit consists of a 12V battery, a 4 Ω resistor, and a 6 Ω resistor connected in series. Calculate the current flowing through the circuit.

Answer:

Using Ohm's Law, we can calculate the current as follows:

Current (I) = Voltage (V) / Resistance (R)

$$I = 12V / (4\Omega + 6\Omega) \quad I = 12V / 10\Omega \quad I = 1.2A$$

Question 2:

In the same circuit, what is the voltage across the 4 Ω resistor?

Answer:

Voltage across a resistor can be calculated using Ohm's Law:

Voltage (V) = Current (I) * Resistance (R)

$$\text{Voltage across } 4\Omega \text{ resistor} = 1.2A * 4\Omega \quad \text{Voltage} = 4.8V$$

Question 3:

What is the total resistance of a circuit that consists of three resistors with resistances of 5 Ω , 8 Ω , and 12 Ω connected in series?

Answer:

Total resistance in a series circuit is the sum of the individual resistances:

$$\text{Total resistance (R)} = R_1 + R_2 + R_3 \quad R = 5\Omega + 8\Omega + 12\Omega \quad R = 25\Omega$$

Question 4:

A circuit has a current of 2.5A flowing through it. Two resistors, one with a resistance of 10 Ω and the other with a resistance of 15 Ω , are connected in parallel. Calculate the total resistance of the parallel combination.

Answer:

For parallel resistors, the total resistance (R) can be calculated as:

$$1/R = 1/R_1 + 1/R_2 \quad 1/R = 1/10\Omega + 1/15\Omega \quad 1/R = 1/6\Omega \quad R = 6\Omega$$

Question 5:

A circuit consists of a 9V battery, a 3 Ω resistor, and a 6 Ω resistor connected in series. Calculate the potential difference between the terminals of the 6 Ω resistor.

Answer:

Using Ohm's Law, we can calculate the voltage across the 6 Ω resistor:

$$\text{Voltage (V)} = \text{Current (I)} * \text{Resistance (R)}$$

$$\text{Voltage across } 6\Omega \text{ resistor} = 1.2\text{A} * 6\Omega \quad \text{Voltage} = 7.2\text{V}$$

What are the first five books of the Bible called the Pentateuch by Christians and Jews alike? Pentateuch means simply "five books". In Greek, the Pentateuch (which Jews call the Torah) includes the books of Genesis, Exodus, Leviticus, Numbers, and Deuteronomy.

What is the Hebrew religious scroll containing the Pentateuch or the first five books of the Old Testament? The Hebrew Bible is organized into three main sections: the Torah, or “Teaching,” also called the Pentateuch or the “Five Books of Moses”; the Nevi'im, or Prophets; and the Ketuvim, or Writings. It is often referred to as the Tanakh, a word combining the first letter from the names of each of the three main divisions.

Is the Pentateuch the same as the Torah? The meaning of “Torah” is often restricted to signify the first five books of the Hebrew Bible (Old Testament), also called the Law (or the Pentateuch, in Christianity). These are the books traditionally ascribed to Moses, the recipient of the original revelation from God on Mount Sinai.

What are the first 5 books of the Pentateuch? The Pentateuch includes the first five books of the Hebrew Bible: Genesis, Exodus, Leviticus, Numbers, and Deuteronomy. The literary category of the Pentateuch reflects the traditional Jewish grouping of these books together as the Torah.

What is the main point of the Pentateuch? The Pentateuch outlines the first covenants that YHWH made with his people. While the larger story of the Bible is indeed a story of God's redemption, the six covenants between YHWH and his people are high points in the larger story. (Note: “YHWH” is the name of God in the Old Testament.

Why are the first 5 books of the Bible called the law? The five books grouped as books of Law are exactly that, rules that God passed down to guide His people as they lived their lives. The Books of Genesis, Exodus, Leviticus, Numbers, and Deuteronomy are all centered around God's creation and the laws He passed down, from the very beginning, to guide faithful living.

Are Torah and Bible the same? The Torah (/ˈtɔːrə/, ˈtoːrə/; Biblical Hebrew: תּוֹרָה Tōrā, "Instruction", "Teaching" or "Law") is the compilation of the first five books of the Hebrew Bible, namely the books of Genesis, Exodus, Leviticus, Numbers and Deuteronomy.

Do Jews believe in Jesus? There is no official Jewish view of Jesus but in one respect Jews are agreed in their attitude towards Jesus. Jews reject the tremendous

claim, which is made for Jesus by his Christian followers - that Jesus is the Lord Christ, God Incarnate, the very Son of God the Father.

What are the first five books of Hebrews? The Torah: The first five books of the Hebrew bible also known as the chumash: Genesis, Exodus, Leviticus, Numbers & Deuteronomy.

Which is older, the Bible or the Quran? The Quran, revealed in the 7th century AD by a man who claimed angelic visitation, lacks verifiable evidence. Contrastingly, the Bible, written between 1400 BC and AD 95, predates the Quran by centuries and was widely distributed before Muhammad's time.

Did Jesus say Moses wrote the Pentateuch? According to the New Testament, Jesus himself recognised Moses as the author of at least some portions of the Pentateuch (e.g., the Gospel of John, verses John 5:46–47), and the early Christians therefore followed the rabbis.

What do Jews call the Old Testament? The Jewish and Christian Bibles do not contain the same books and they are not arranged in the same order. There is a different "canon," a different listing of the biblical books in the collections that Jews call Tanakh and Christians call the Old Testament.

What is the golden rule in the Bible? Golden Rule, precept in the Gospel of Matthew (7:12): "In everything, do to others what you would have them do to you. . . ." This rule of conduct is a summary of the Christian's duty to his neighbour and states a fundamental ethical principle.

What does Yahweh mean? The meaning of the name Yahweh, as noted, has been interpreted as "I Am" or "He That Is", though other interpretations have been offered by many scholars. In the late Middle Ages, 'Yahweh' came to be changed to 'Jehovah' by Christian monks, a name commonly in use today.

What are the best known laws in the Hebrew Bible called? The Torah contains the books of Genesis, Exodus, Leviticus, Numbers, and Deuteronomy. It is best-known for establishing 613 laws for Jews to live by, which include the Ten Commandments.

Which Hebrew prophet is closely linked to the five books called the Pentateuch? The composition dates of the Pentateuch are directly tied to its authorship. According to most Jewish, Christian, and Muslim religious traditions, the entire Pentateuch was written by the prophet Moses who led the Israelites out of Egypt.

What is the difference between the Torah and the first 5 books of the Bible? The Torah (/tɔːrə, ˈtoʊrə/; Biblical Hebrew: תּוֹרָה, "Instruction", "Teaching" or "Law") is the compilation of the first five books of the Hebrew Bible, namely the books of Genesis, Exodus, Leviticus, Numbers and Deuteronomy.

What do Jews call the Old Testament? The Jewish and Christian Bibles do not contain the same books and they are not arranged in the same order. There is a different "canon," a different listing of the biblical books in the collections that Jews call Tanakh and Christians call the Old Testament.

What are the first five books of the Bible are known as the Torah group of answer choices? The Torah is the first five books of the Bible, commonly known by their Greek names: Genesis, Exodus, Leviticus, Numbers, and Deuteronomy. Jews also refer to them by their Hebrew names: Beresheet ("In the beginning"), Shemot ("Names"), Vayikra ("And He called"), Bamidbar ("In the desert"), and Devarim ("Words").

How to pass IGCSE biology paper 6?

How do you get an A * in IGCSE biology?

How many marks is paper 6 biology IGCSE? The total mark for this paper is 40. The number of marks for each question or part question is shown in brackets []. This document has 14 pages. Any blank pages are indicated.

How to get a 9 in IGCSE biology? Build your biology vocabulary to understand the subject's terms. Recognising and improving your weaknesses is crucial. Taking notes in class, revising often, and practising with as many past papers as possible are all tips for getting the highest grades.

Which subject is hardest for IGCSE?

Which science is the hardest in IGCSE? Which Subject Is Hardest In IGCSE? The hardest subject in IGCSE can vary from person to person based on individual strengths and interests. However, subjects like Mathematics, Physics, and Chemistry are often considered more challenging due to their complex concepts and problem-solving requirements.

Is 80% an A in IGCSE? A (80-89%): Excellent performance. B (70-79%): Good performance. C (60-69%): Satisfactory performance. D (50-59%): Fair performance.

What is 90% in IGCSE? The grading system in IGCSE is based on a scale from A* to G, with A* representing the highest level of achievement. Scoring 90 percent corresponds to achieving an A* grade, which is an outstanding accomplishment.

Is 7 an A in IGCSE? Universities equate A to a grade 7, as the grade thresholds are identical. For highly-competitive courses, some International university admissions offices state that they would expect successful applicants to have As and A*s at IGCSE. Under the 9-1 grading system, 7, 8 and 9 would be seen as equivalent.

What percentage is AC in IGCSE?

What is the pass rate for IGCSE biology? Biology: 100% pass rate. 60% A and B grades.

What is the difference between 0970 and 0610 in biology? The difference is in the grading, 0970 being 9-1 and 0610 being A*-G, otherwise the syllabus is identical.

Is it hard to get all 9s in Igcse? Getting a grade 9 at GCSE level in one subject is an incredible achievement but to do so in all subjects is something else! In 2023 this was achieved by 0.02 per cent of students in the UK (Gov.uk), roughly four students in every average-sized school.

Is Igcse biology harder than GCSE? IGCSEs are generally considered more challenging than the GCSEs, although this will depend on the subject. However, both courses are designed to give students a world-class education and to equip them with the skills they need for further study or employment.

How to revise biology quickly?

What is the easiest subject in IGCSE? 1 - Art & Design IGCSE Art & Design is often regarded as one of the easier subjects due to its creative nature and subjective assessment criteria. Students have the freedom to explore various art forms and design concepts, allowing them to express their ideas and perspectives uniquely.

How hard is IGCSE biology? The question of difficulty is subjective and often varies from student to student. However, IGCSE Biology is perceived as challenging by many due to its vast syllabus and the depth of understanding required. According to the responses to an educational survey, students found Biology as the 4th hardest IGCSE subject.

What is the hardest Igcse paper? Additional Mathematics is by far, through student consensus, the hardest IGCSE subject.

Is Edexcel harder than Cambridge? Both examination boards evaluate students through written examinations, practical assessments, and coursework, but the specific structure and weighting of these components vary. Cambridge International Examinations (CIE) is often perceived as having more challenging exams.

What is the hardest IGCSE exam board? IGCSE Additional Mathematics is considered one of the most challenging subjects. This is because it builds on the foundation of the regular IGCSE Mathematics syllabus and covers more advanced topics, such as calculus, matrices, and vectors.

Is physics harder than chemistry IGCSE? It is subjective whether physics or chemistry is harder. It depends on individual interests, strengths, and learning styles. Physics focuses on the study of matter, energy, and their interactions, while chemistry focuses on the study of the composition, structure, and properties of matter and their changes.

Is an A+ A 97? Common examples of grade conversion are: A+ (97–100), A (93–96), A- (90–92), B+ (87–89), B (83–86), B- (80–82), C+ (77–79), C (73–76), C- (70–72), D+ (67–69), D (65–66), D- (below 65).

Is D in Cambridge a pass? GCE Advanced Level - grades A*(a*), A(a), B(b), C(c), D(d), or E(e) indicate a pass at Advanced Level, grade A*(a*) being the highest and grade E(e) the lowest.

Is 70 an A in Igcse? From the table, we see that a Grade B translates to a PUM of 70-79. While this may not be the best grade but is still fairly good. A good grade can help you seek further admission, it is also necessary to remember that IGCSE prepares you for further higher education.

What is the pass rate for IGCSE biology? Biology: 100% pass rate. 60% A and B grades.

How to pass a GCSE biology exam? Create a revision schedule with enough time to cover everything. Answer past paper questions to learn their structure and expected answers. Regular practice helps you identify areas that need improvement and focus your efforts. Finally, time each question in mock exams to get used to answering quickly.

How do you get past papers in IGCSE? You can search for support materials, including past exam papers, for IGCSEs and A/AS Levels by going to the CIE online resource centre .

How to prepare for IGCSE maths paper 6? How do I study for the IGCSE international mathematics (0607) paper 6? The best way to study for these exams is simply to do past papers, and this is even more so with Paper 6, the investigation paper. Once you have finished the syllabus, the most effective way to prepare is to simply do past paper after past paper.

Is 75% an A in Igcse? For example, if a student receives an A grade in IGCSE Mathematics, the percentage equivalent would be between 80-89%.

What grade is 70% in Igcse?

What is 90% in Igcse? The grading system in IGCSE is based on a scale from A* to G, with A* representing the highest level of achievement. Scoring 90 percent corresponds to achieving an A* grade, which is an outstanding accomplishment.

What grade is 70% in GCSE biology?

What grade is 60% in biology GCSE? Subject Level Uniform Mark boundaries (grades A to G) carry the same % weighting across both Grading Routes: i.e. A 80%,

B 73%, C* 67%, C 60%, D 50%, E 40%, F 30% and G 20%.

Is Igcse biology harder than GCSE? IGCSEs are generally considered more challenging than the GCSEs, although this will depend on the subject. However, both courses are designed to give students a world-class education and to equip them with the skills they need for further study or employment.

How do you get an A * in Igcse?

How do you get an A * in history Igcse? To excel in IGCSE History, you must conduct thorough research and analyze historical sources effectively. This involves developing strong research skills, such as finding and evaluating credible sources, taking notes, and organizing your research effectively.

How do I ace my Igcse?

Is 0607 paper 6 hard? 0607 is definitely a more challenging curriculum, primarily this is because it expects students to be extremely familiar with a GDC, especially for paper 6—investigation.

How can I get good score in IGCSE?

Is IGCSE maths harder than GCSE maths? As mentioned previously, if it is IGCSE vs GCSE maths, IGCSE has been difficult traditionally. This is due to the end-of-course examination system. But, due to the GCSE reform, there has been omission of coursework from a number of GCSE subjects making it easier than IGCSE.

Who is the author of the city reader? The City Reader (Routledge Urban Reader Series) by Richard T. LeGates | Goodreads.

Who is the reader written by?

Who is the publisher of the reader?

Who is the author of the book Joseph Anton? Joseph Anton: A Memoir is an autobiographical book by the British Indian writer Salman Rushdie, first published in September 2012 by Random House.

Who is the author of Dolores Claiborne?

Who is the author of the book The Image of the City? Author(s) Kevin Lynch (1918-1984) studied with Frank Lloyd Wright at Taliesin and later obtained a Bachelor of City Planning degree from MIT. After a long and distinguished career on the faculty of the MIT School of Architecture and Urban Planning, he was named Professor Emeritus of City Planning.

Who is the author of The Smartest Giant in Town? Julia Donaldson Although she is best-known for her picture books, Julia also writes longer novels, plays and songs.

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