

FUNCTIONAL GROUPS AND ORGANIC REACTIONS GUIDED ANSWERS

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What are functional groups and how do they react? Functional groups are atoms or small groups of atoms (two to four) that exhibit a characteristic reactivity when treated with certain reagents. A particular functional group will almost always display its characteristic chemical behavior when it is present in a compound.

Which is the only functional group that is nonpolar? Methyl R-CH_3 The methyl group is the only nonpolar functional group in our class list above. The methyl group consists of a carbon atom bound to three hydrogen atoms. In this class, we will treat these C-H bonds as effectively nonpolar covalent bonds (more on this in the Bond Types chapter).

What three functional groups are found in aspirin?

How to identify functional groups of a molecule?

What do the 7 functional groups do? Some of the important functional groups in biological molecules include: hydroxyl, methyl, carbonyl, carboxyl, amino, phosphate, and sulfhydryl groups. These groups play an important role in the formation of molecules like DNA, proteins, carbohydrates, and lipids.

What are functional groups for dummies? A functional group is defined as an atom or group of atoms within a molecule that has similar chemical properties whenever it appears in various compounds. Even if other parts of the molecule are quite different, certain functional groups tend to react in certain ways.

How do you identify the functional group in an organic compound? Note: An organic compound can contain more than one functional group. To identify the functional group, you must know their formula. For example, if a hydroxyl group is present then its formula is -OH. For the acidic group, the formula is -COOH.

How many functional groups are there in organic chemistry? In a typical sophomore organic chemistry course, there are about 15 key functional groups, with another group of 10 or so that make consistent appearances.

How to tell if a functional group is acidic or basic? Since carboxyl groups can release H^+ ions into a solution, they are considered acidic. Charged, accepts H^+ to form NH_3^+ . Since amino groups can remove H^+ from solution, they are considered basic. Charged, ionizes to release H^+ .

What are the functional groups of Tylenol? Acetaminophen is another name for paracetamol. Paracetamol contains three functional groups, which are a hydroxyl (alcohol) group, an aromatic (benzene ring) group, and an amide group.

What is the difference between an ester and an ether? The main difference between ether and ester lies in their structure. An ester group requires two oxygen atoms and two carbon atoms to complete its characteristic structure, while an ether group only needs one oxygen atom and two carbon atoms for its structure.

What are the functional groups of glucose? Glucose exists in a straight-chain form and in various cyclic forms. In the straight-chain form, the functional group at carbon one is an aldehyde group. The functional groups on carbon two to carbon six are alcohol groups. In the cyclic form, the functional group on carbon one is a hemiacetal group.

What is the most useful functional group? Finally we get to the highest priority functional group: the carboxylic acid. Carboxylic acids have a carbon atom double bound to oxygen (carbonyl) along with an OH single bound to that same carbon atom.

What functional groups contain oxygen? Aldehydes, ketones, carboxylic acids, esters, and ethers have oxygen-containing functional groups. IUPAC naming can be used for aldehyde, ketone, carboxylic acid, and ester and ether-containing

molecules.

What does R represent in organic chemistry? R is an abbreviation for radical, when the term radical applied to a portion of a complete molecule (not necessarily a free radical), such as a methyl group. Should not be confused with R (the gas constant), R (the one-letter abbreviation for the amino acid arginine) or R (a designation of absolute configuration).

What element are all organic molecules based on? Complete answer: Organic molecules are usually composed of carbon atoms in rings or long chains, to which are attached other atoms of such elements as hydrogen, oxygen, and nitrogen. Hence carbon elements are found in all organic molecules.

Which organic molecule serves as a catalyst? An enzyme, a molecule that serves as a catalyst in living things, regulates the speed at which chemical reactions take place without changing the nature of the reaction itself. An enzyme is defined as an organic catalyst for biochemical processes.

Which functional group contains only hydrogen and oxygen? hydroxyl group (-OH), in chemistry, a functional group with one hydrogen and one oxygen atom. An oxygen atom normally forms two - bonds with other atoms; the water molecule, H_2O , is the simplest and most common example.

How to identify functional groups in a molecule?

What are the 7 functional groups? The 7 major functional groups are: hydroxyl (such as alcohols, ROH), methyl (carbon-carbon bonds), carbonyl (carbon-oxygen double bonds), carboxyl (a combination of a carbonyl and hydroxyl group), amino (carbon-nitrogen bonds), phosphate (carbon, phosphate bonds), and sulfhydryl (carbon-sulfur bonds).

What is the easiest way to remember functional groups? One of the easiest ways to learn functional groups is by making flash cards. Get a pack of index cards and write the name of the functional group on one side, and draw its chemical representation on the other. For now, a list of the most important ones you should know is provided here.

What are the 5 main organic compounds? Organic compounds essential to human functioning include carbohydrates, lipids, proteins, and nucleotides. These compounds are said to be organic because they contain both carbon and hydrogen.

What are the 6 main functional groups found in organic compounds?

How do you write functional groups in organic chemistry? Haloalkanes, or alkyl halides, are the functional groups which contain a bond between a carbon atom and a halogen. The prefix used to denote a halogen is 'halo-'. For example, the compound CH_3F can be called fluoromethane, and the prefix here is fluoro. The suffix used to denote a halogen is the 'halide'.

Which functional group has highest priority? As a rule of thumb, the higher the oxidation state of the central carbon, the higher the priority of the functional group. Thus, carboxylic acids have higher priority than alcohols, and so on (See also table 21-1 in your textbook). 1. CARBOXYLIC ACIDS (highest priority among carbon-containing functional groups).

What are 2 examples of functional groups in organic chemistry? In organic chemistry, the most common functional groups are carbonyls ($\text{C}=\text{O}$), alcohols ($-\text{OH}$), carboxylic acids (CO_2H), esters (CO_2R), and amines (NH_2).

Why are functional groups important? A functional group is a collection of atoms in a molecule that are responsible for the characteristic reactions of the compound. A functional group is, if you like, what gives a molecule its 'character'. It defines the chemistry of the molecule in terms of what it can do.

What is a functional group in simple terms? Functional groups are groups of atoms in a compound, such as the hydroxyl group in an alcohol, that determine the chemical behavior of the compound. The part of a compound that reacts with another compound is called the functional group.

What is a functional group How does it behave? In organic chemistry, a functional group is a specific group of atoms or bonds within a compound that is responsible for the characteristic chemical reactions of that compound. The same functional group will behave in a similar fashion, by undergoing similar reactions, regardless of the compound of which it is a part.

What are functional groups and why are they important? Functional groups are important in chemistry because they are the portion of a molecule that is capable of characteristic reactions. They, therefore, determine the properties and chemistry of many organic compounds. An organic compound is any compound that contains carbon and another element.

What determines the reactivity of a functional group? The reactivity of a functional group is determined by its electron distribution and the types of bonds it forms. For instance, a hydroxyl group (-OH) is polar because the oxygen atom is more electronegative than the hydrogen atom, meaning it pulls electrons closer to itself.

What are five functional groups examples?

How do you identify the functional group in an organic compound? Note: An organic compound can contain more than one functional group. To identify the functional group, you must know their formula. For example, if a hydroxyl group is present then its formula is -OH. For the acidic group, the formula is -COOH.

What best describes a functional group? Functional groups are specific groups or recognizable group of atoms or bonds within molecules that are responsible for the characteristic chemical reactions of those molecules.

How do functional groups affect organic molecules? Functional groups determine the chemical reactivity of an organic molecule. Functional groups are structural units that determine the chemical reactivity of a molecule under a given set of conditions. Organic compounds are classified into several major categories based on the functional groups they contain.

What is the functional group mainly responsible for? The functional group is a group of an atom within a molecule which is responsible for chemical characteristics of that molecule (compound). The first carbon atom after the carbon atom bonded to a functional group is known as alpha carbon and further carbon in a chain are known as beta, gamma progressively.

How many functional groups are there in organic chemistry? In a typical sophomore organic chemistry course, there are about 15 key functional groups, with

another group of 10 or so that make consistent appearances.

How to easily identify functional groups? Also, they are normally attached to carbon atoms in organic molecules. Common functional groups include: the hydroxyl group (-) found in alcohols; the carbonyl group found in aldehydes (C H O), where the group is found at the end of a molecule, and the ketone group (), which is found between two carbon atoms.

What is the most useful functional group? Finally we get to the highest priority functional group: the carboxylic acid. Carboxylic acids have a carbon atom double bound to oxygen (carbonyl) along with an OH single bound to that same carbon atom.

What are the 7 functional groups? Some of the important functional groups in biological molecules include: hydroxyl, methyl, carbonyl, carboxyl, amino, phosphate, and sulfhydryl groups. These groups play an important role in the formation of molecules like DNA, proteins, carbohydrates, and lipids.

Which functional group is the most reactive? Alkyl halides are more reactive than other compounds due to the presence of the halogen atom (fluorine, chlorine, bromine, or iodine) bonded to the alkyl group.

What is the priority order of functional groups? Solution: The priority of functional groups in IUPAC nomenclature is $\text{-COOH} > \text{-SO}_3\text{H} > \text{-COOR} > \text{-COCl} > \text{-CONH}_2 > \text{-CN} > \text{HC=O} > \text{-CO} > \text{-OH} > \text{-NH}_2 > \text{C=C} > \text{C-C}$.

What role does oxygen play in most functional groups? What role does oxygen play in most functional groups? In many functional groups, oxygen helps establish the polarity of the molecule. In some groups, oxygen acts as a reducing agent by losing electrons from compounds while in other groups, it acts as an oxidizing agent by gaining electrons to form a bond.

Is the Lexus GS300 reliable? most reliable car engine you can have The GS300 has the glorified 2JZ inline 6 cylinder engine. It will last you as long as you want if you are smart. Currently driving one with over 310,000 miles and commonly run into 2JZ owners with even more and still going strong.

How much does it cost to maintain a GS300? The annual maintenance cost of a Lexus GS300 is \$434.

Is a Lexus expensive to repair? Is a Lexus expensive to maintain? On the whole, Lexus vehicles are some of the least expensive cars to maintain compared to other luxury brands. They can also be cheap compared to mass-market brands, too, because many Lexus models share parts with Toyota. However, it also depends on the model you have.

How much does it cost to replace a head gasket on a Lexus GS300? The average cost for a Lexus GS300 Head Gasket Replacement is between \$2,383 and \$2,680.

What is the most reliable year of Lexus GS? The 2013 Lexus GS is certainly one of the most reliable and often considered the best year Lexus GS when it comes to interior comfort for those long Johns Creek drives. The most significant changes were the 2016 model having a revamped design and being equipped with a new engine option.

How long do Lexus GS engines last? This 4.6 liter V8 engine is often found in not only Lexus cars, but also in some Toyota made automobiles as well. Utilized by Lexus vehicles like the GS 460, LS 460, and GX 460, the 1UR-FE is a dependable engine that has reached upwards of 250,000 to 300,000 miles with routine maintenance in several examples.

How much does it cost to replace a timing belt on a Lexus GS300? The average cost for a Lexus GS300 Timing Belt Replacement is between \$626 and \$830. Labor costs are estimated between \$273 and \$344 while parts are priced between \$354 and \$486. This range does not include taxes and fees, and does not factor in your unique location. Related repairs may also be needed.

How many mileage can a Lexus last? In general, cars from this luxury brand can easily last 250,000 to 300,000 miles. While cars from other brands can last for around 150,000 miles, a Lexus can double that estimation and allows drivers to push the absolute limit of the vehicle's longevity before a replacement is necessary.

Does Lexus require high maintenance? Lexus vehicles usually come with pretty average upkeep costs. According to data from RepairPal, the average annual repair cost for a Lexus vehicle is \$551.

Why is an oil change for a Lexus so expensive? The higher cost of a Lexus oil change can be attributed to several factors. These include the use of synthetic oil, higher labor costs at a dealership, and the inclusion of additional services and inspections.

Does Lexus require premium gas? With that said, you're probably asking yourself, "Does Lexus require premium gas?" For most (but not all) of the Lexus lineup, the answer to that question is yes. Most Lexus models require you use at least 91 octane (premium) gasoline, while there are a few that can use 87 octane regular unleaded.

What is the common problem for the Lexus car? One of the most prevalent issues that plague Lexus cars is oil leakage. While this problem is not unique to Lexus vehicles, they seem to be particularly prone to premature leaks. Many Lexus owners report experiencing oil leaks as early as 8,000 miles into the car's life.

Is it worth it to fix a car with a blown head gasket? Here's a rule of thumb: Only replace the head gasket if the vehicle is worth at least double the cost of the repair. If it's not, you're likely better off getting a new (to you) car.

How many miles does a head gasket last? A Head Gasket Can Last 200,000 Miles or Longer As it's relatively costly to replace, most carmakers design head gaskets that last for about 200,000 miles. Factors such as how you drive and maintain your car can affect that figure, and it's not uncommon for them to last much longer.

How many labor hours to replace a blown head gasket? Labor takes the bigger chunk of the average head gasket replacement cost. Usually, a car repair technician spends over five hours removing and replacing the damaged part. If the problem has already spread to the rest of the engine system, it could take 10 hours or more.

What years to avoid Lexus GS 300? But don't buy a year 2006 or a year 1998 GS300. Apparently, owners of the 2006 model years have submitted a total of 220

complaints. From faulty mirrors that won't reset the tilt after back up to jerky shifting, to a fuel pump that stops working, the 2006 is one of the worst Lexus GS model years.

Why was the Lexus GS discontinued? The Discontinuation of the Lexus GS In 2019, Lexus sold just 3,378 units of the GS in the United States, making it the brand's slowest-selling four-door sedan. The declining sales, coupled with the increasing competition from rival luxury brands, made it difficult for Lexus to justify continued GS production.

What is the longest lasting Lexus? Lexus LX 470 This car is an upgraded edition of the Toyota Land Cruiser. It is the most reliable Lexus because of its great reliability. Like any old car, its longevity depends on how well the owner cares for it. It can easily last hundreds of miles without problems if maintained properly.

Did the Lexus GS300 have a 2JZ? The Lexus GS 300 had a naturally aspirated 2JZ engine capable of generating 227 horsepower and 210 lb-ft of torque. Some referred to this vehicle as “the gentleman's Supra,” a reference to the fact that it provided a more upscale feel than Toyota's famous sports car while retaining some of its sporty excitement.

How many miles will a 2006 Lexus GS300 last? A Lexus still running pretty good at 218K, provided the oil burn rate isn't more than one quart in 750 miles , I'd guess the engine should be good to 250K if the routine maintenance schedule is maintained. The transmission is probably the bigger big-repair-cost risk, assuming this is an automatic.

Does Lexus last longer than BMW? For the tenth time in 12 years, Lexus stands at the top of the competition in terms of dependability with a score of 133 PP100. This is a full 53 problems per 100 vehicles lower than the industry average of 186 PP 100 Compared to the BMW score of 184 PP100, Lexus is the clear winner in terms of dependability.

When should the timing belt be changed on a Lexus GS300? For vehicles operated under conditions of excessive idling & or low speed driving for long distances, replace at 60,000 mile intervals.

When should I replace my Lexus timing chain? Rattling, whining, or buzzing noises also indicate a worn out timing chain which will require replacement. When owners are unable to identify the symptoms of timing chain problems or how to handle them, it would be best to get assistance from an Expert.

What are the signs of a timing belt replacement?

Is it OK to buy a Lexus with high mileage? If a used car has 50,000 miles and seems to be working pretty well, then it's likely a good buy. However, a cheap used car with 100,000 miles can probably last you another four years so long as it's in decent condition.

Is 300000 miles on a Lexus bad? Lexus is known for combining durability with refinement, and the RX350 fits the bill. With its reliability score of 90, don't be surprised to see this SUV cruising past 300,000 miles.

How long do Lexus transmissions last? The time range is usually between 50,000 and 150,000 miles, but it really depends on the specific needs of your Lexus car.

What's the most reliable Lexus ever made?

How many miles can a 2006 Lexus GS300 last? A Lexus still running pretty good at 218K, provided the oil burn rate isn't more than one quart in 750 miles , I'd guess the engine should be good to 250K if the routine maintenance schedule is maintained.

Is the IS300 engine reliable? 2001 IS 300 is a very reliable automobile! I am the original owner of a 2001 IS300 Lexus. I currently have 270000 miles and I see the car running to at least 400 k easily, it's that strong. My alternator went out at 250,000 miles and my fuel pump went out at 260,000.

Did the Lexus gs300 have a 2JZ? The Lexus GS 300 had a naturally aspirated 2JZ engine capable of generating 227 horsepower and 210 lb-ft of torque. Some referred to this vehicle as "the gentleman's Supra," a reference to the fact that it provided a more upscale feel than Toyota's famous sports car while retaining some of its sporty excitement.

Which Lexus to stay away from? Which Lexus IS Vehicles Are the Least Reliable?

There are certainly some used Lexus IS models you should avoid, including: 2007 Lexus IS 250, which is known for power steering failures, flickering headlights, and faulty airbag sensors. 2008 Lexus IS 250, which has 308 record complaints according to the NHTSA.

Which is the best Lexus to buy second hand? The Lexus GS has been voted the best second-hand car to own in the 2021 Driver Power Used Car Survey. The premium saloon performed admirably across all categories, with notably impressive scores for its reliability, build quality, powertrains, ride quality and heating/air-conditioning.

What is the best year for Lexus to buy? According to industry reviews, consumer feedback, reported problems, and NHTSA statistics, the most reliable years for Lexus RX350 are 2014, 2018, 2020, 2021, 2022, and 2023. In these particular years, the car received the highest ratings in terms of safety, reliability, and performance.

How much is a 2006 GS300 Lexus worth? A 2006 Lexus GS GS 300 Sedan 4D has depreciated \$733 in the last 3 years and has a current resale value of \$5,116 and trade-in value of \$3,026.

Is it OK to buy a Lexus with high mileage? If a used car has 50,000 miles and seems to be working pretty well, then it's likely a good buy. However, a cheap used car with 100,000 miles can probably last you another four years so long as it's in decent condition.

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What IS the common problem of Lexus 300? Starting problems/ irregular idling
The IAC (Idle Air control) valve and the EGR (Exhaust Gas Recirculation) valves are prone to getting blocked up with a carbon build up. If you are having problems starting your vehicle and/or you are having irregular engine idling, these parts need

to be cleaned out.

Why IS the 2jz reliable?

Does IS 300 have timing belt? Yes, it should be replaced based on how old it is, even though you don't have 90k miles. The belt is recommended to be replaced at 6yrs or 90k miles and you have almost double the time.

Why did Lexus discontinue GS? The declining sales, coupled with the increasing competition from rival luxury brands, made it difficult for Lexus to justify continued GS production.

Is the GS 300 a sports car? It was an attractive car with an inviting interior. But as a sport sedan, the GS faltered, largely because of its size and underpowered 3.0-liter engine. Article after article in enthusiast magazines would call it a comfortable, competent handler that was seriously lacking a vibrant powertrain.

What does GS mean in Lexus? Though largely identical in exterior and interior design, the GS and the Aristo differed in their engine and transmission combinations as well as equipment packages. The GS name stands for Grand Sedan. However, some Lexus importers use the backronymic name, Grand Sport.

What is the latest edition of the DGR? Description. IATA DGR 65th Edition 2024. Recognised by airlines worldwide, the IATA Dangerous Goods Regulations (DGR) is the industry standard for shipping dangerous goods by air.

What is the latest version of IATA DGR manual? 2024 IATA Dangerous Goods Regulations - 65th Edition.

What is the latest edition of dangerous goods? Download the Code Edition 7.9 is the latest edition of the ADG Code. It can be used from 1 October 2024 and is mandatory from 1 October 2025. The commencement date in some states may be later than 1 October 2024, please check with your competent authority.

What is the 63rd edition of the IATA Dangerous Goods Regulations? The 63rd edition of the IATA Dangerous Goods Regulations incorporates all amendments made by the IATA Dangerous Goods Board and includes addenda issued by ICAO to the content of the 2021–2022 edition of the ICAO Technical Instructions.

How many types of DGR are there? What are the 9 classes of Dangerous Goods? 'Dangerous goods' are materials or items with hazardous properties which, if not properly controlled, present a potential hazard to human health and safety, infrastructure and/ or their means of transport.

How often is the IATA DGR published? The DGR is published every year. Each year, significant changes are done to procedures and regulations, that's why we publish a new version of the DGR every year.

What are the changes to the IATA DGR 2024? Significant changes to the 2024 IATA DGR take effect on 01/01/2024 and include: For non-refillable cylinders containing a flammable gas (5.2. 0.9), adding a water capacity limit. Revising IATA Packing Instruction 954 (PI 954), for dry ice, to clarify the rules for marking overpacks containing dry ice.

Is IATA DGR more restrictive than ICAO TI? As IATA airlines are somewhat stricter in their requirements than the ICAO Technical Instructions, the DGR specifies more precisely how to prepare a shipment.

What is the DGR of IATA? The IATA Dangerous Goods Regulations (DGR) manual is the global reference for shipping dangerous goods by air and the only standard recognized by airlines.

What is the latest IMDG Code Edition? The IMDG Code, 2022 Edition (inc. Amendment 41-22) comes into force on 1 January 2024 and may be applied voluntarily as from 1 January 2023.

What is the ADR regulation for 2024? The UN ADR 2024 covers changes to transporting dangerous goods by road. It is valid from 1st January 2024, but there is a six month transition period when it becomes mandatory on 1st July 2024. £212.00. £189.00.

What is the IATA list of dangerous goods?

What is the current edition IATA DGR? Users of the IATA Dangerous Goods Regulations are asked to note the following amendments and corrections to the 65th Edition, effective 1 January 2024. Where appropriate, changes or amendments to

existing text have been highlighted (in yellow - PDF or grey - hardcopy) to help identify the change or amendment.

What is the DG IATA manual? The International Air Transportation Association (IATA) Dangerous Goods Regulations (DGR) manual is a global reference for shipping dangerous goods by air and is the only standard recognized by airlines. The DGR are rules based on the International Civil Aviation Organization's (ICAO) Technical Instructions.

What is Class 3 dangerous goods IATA? The UN define class 3 substances as flammable liquids and liquid desensitised explosives. Flammable liquids are liquids which produce a flammable vapour at temperatures of less than 60°C (or 65.4°C for substances tested with an open-cup method).

What is the latest edition of the IMDG Code? IMDG Code 2022 Edition Amendment 41-22 comes into force on 1 January 2024 for two years and may be applied voluntarily as from 1 January 2023. The IMDG Code, 2020 Edition Amendment 40-20 came into force on 1 January 2022 for two years.

What is the DGR of IATA? The IATA Dangerous Goods Regulations (DGR) manual is the global reference for shipping dangerous goods by air and the only standard recognized by airlines.

What is the long form of DGR? The Directorate General Resettlement (DGR) is an Inter Service organization functioning directly under the Department of Ex-Servicemen Welfare (Ministry of Defence).

What is the ICAO Annex 18? States are required by Annex 18 to have inspection and enforcement procedures to ensure that dangerous goods are being carried in compliance with the requirements. Dangerous goods are carried regularly and routinely by air all over the world.

Soal Latihan UAS SMP/MTs Kelas 9 Semester 1 Kurikulum 2013

Bahasa Indonesia

1. Jelaskan pengertian teks eksplanasi dan sebutkan strukturnya.
 2. Analisislah isi teks eksplanasi tentang "Proses Terjadinya Hujan".
-

Matematika

3. Tentukan nilai X dari persamaan: $2x + 5 = 15$
4. Sebuah segitiga memiliki panjang sisi 6 cm, 8 cm, dan 10 cm. Hitunglah luas segitiga tersebut.

IPA

5. Gambarkan dan jelaskan bagian-bagian sel hewan.
6. Jelaskan proses pencernaan karbohidrat dalam tubuh manusia.

IPS

7. Sebutkan dan jelaskan faktor-faktor yang mempengaruhi pembangunan ekonomi suatu negara.
 8. Analisislah dampak positif dan negatif globalisasi terhadap Indonesia.
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Jawaban

Bahasa Indonesia

1. **Definisi Teks Eksplanasi:** Teks yang bertujuan menjelaskan suatu proses atau fenomena. **Struktur:** Pendahuluan, deretan penjelasan, dan simpulan.
2. **Analisis Teks Eksplanasi:**
 - Proses terjadinya hujan berawal dari penguapan air laut.
 - Uap air berkumpul menjadi awan.
 - Saat awan jenuh, terjadi kondensasi membentuk titik-titik air.
 - Titik-titik air yang semakin berat turun sebagai hujan.

Matematika

3. **Solusi:** $2x + 5 = 15$ $2x = 10$ $x = 5$
-

4. **Solusi:** Luas segitiga = $(1/2) \times \text{alas} \times \text{tinggi} = (1/2) \times 6 \text{ cm} \times 8 \text{ cm} = \mathbf{24 \text{ cm}^2}$

IPA

5. Bagian-bagian Sel Hewan:

- Membran sel
- Sitoplasma
- Inti sel
- Mitokondria
- Retikulum endoplasma

6. Proses Pencernaan Karbohidrat:

- Mulut: Karbohidrat dipecah oleh enzim amilase.
- Lambung: Enzim pepsin membantu memecah karbohidrat.
- Usus halus: Enzim laktase memecah laktosa.
- Usus besar: Karbohidrat tidak tercerna difermentasi oleh bakteri.

IPS

7. Faktor Pembangunan Ekonomi:

- Sumber daya alam
- Sumber daya manusia
- Investasi
- Teknologi
- Kebijakan pemerintah

8. Dampak Globalisasi: Positif:

- Perdagangan dan investasi meningkat
- Aliran informasi dan teknologi lebih cepat **Negatif:**
- Kesenjangan ekonomi
- Budaya lokal terkikis

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