

Adding and subtracting polynomials date period

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When and How to Add and Subtract Polynomials

Grade Level: Typically taught in middle school (Grade 7)

Standard Form Rules:

- Combine like terms by adding or subtracting their coefficients.
- Write the sum or difference in standard form (order of decreasing degree).

When to Add:

- When the coefficients of the terms with the same degree have the same sign (both positive or both negative).

When to Subtract:

- When the coefficients of the terms with the same degree have different signs (one positive and one negative).

First Thing to Consider in Subtracting Polynomials:

- Change the sign of each term in the second polynomial.

Rules for Subtraction:

- Subtract the coefficients of like terms.

- Attach the opposite sign of the constant term in the second polynomial.

Adding and Subtracting Monomials:

- Combine coefficients with the same variable.
- Keep the variable raised to the same power.

Classifying Polynomials Grade 7:

- **Linear:** One variable, degree 1.
- **Quadratic:** One variable, degree 2.
- **Cubic:** One variable, degree 3.

Example:

To add:

$$(3x^2 + 5x - 2) + (2x^2 - 3x + 4)$$

Solution:

$$(3x^2 + 2x^2) + (5x - 3x) + (-2 + 4)$$

$$5x^2 + 2x + 2$$

To subtract:

$$(4x^3 - 2x^2 + 5x - 1) - (2x^3 + 4x^2 - 3x + 2)$$

Solution:

$$(4x^3 - 2x^3) + (-2x^2 - 4x^2) + (5x + 3x) + (-1 - 2)$$

$$2x^3 - 6x^2 + 8x - 3$$

What is economic development Todaro and Smith? Todaro and Smith take a policy-oriented approach, presenting economic theory in the context of critical policy debates and country-specific case studies, to show how theory relates to the problems and prospects of developing countries.

What is Harris Todaro model of economic development? Overview. In the model, an equilibrium is reached when the expected wage in urban areas (actual

wage adjusted for the unemployment rate), is equal to the marginal product of an agricultural worker. The model assumes that unemployment is non-existent in the rural agricultural sector.

What is Todaro's theory of growth and development? According to Todaro three important aspects of development are: a/ raising people's living levels , i.e. their incomes, and consumption levels of food, medical services, and education through “relevant” economic growth processes; b/ creating conditions conducive to the growth of people's self esteem through the ...

What is economic development 10? Economic development is defined as an increase in a country's wealth and standard of living. For example, Improved productivity, higher literacy rates, and better public education are all consequences of economic development in a country.

What are Todaro's three objectives of development? The three objectives of development according to Michael P. Todaro are urbanization and migration, education and technology, and population growth and the environment.

What is the Smith theory of economic development? Smith believed that economic development was best fostered in an environment of free competition that operated in accordance with universal “natural laws.” Because Smith's was the most systematic and comprehensive study of economics up until that time, his economic thinking became the basis for classical economics.

What are the main theory of economic development? Four common theories of development economics include mercantilism, nationalism, the linear stages of growth model, and structural-change theory.

What are the policy implications of the Harris-Todaro model? The Policy Implications of the Model: For example, if the government of the country concerned were successful in fostering industrial development in an urban area, employment would increase there. The effect would be to increase the subjective productivity of getting urban employment in the minds of rural inhabitants.

What is Todaro? Also known as the Harris-Todaro model, it seeks to account for migration from rural areas to cities even when the opportunities for employment in

urban areas are low, arguing that migration is seen as an individual investment, increasing the probability of obtaining better employment with a higher wage.

What is development planning according to Todaro? Todaro defines development planning as “the conscious effort of a central organization to influence, direct and in some cases even control changes in the principal economic variables (such as GDP, consumption, investment, savings, etc.)

What are the 3 main theories of development?

What is development according to Todaro 1981? Todaro (1981: p. 56) defines development as a multi-dimensional process involving the reorganisation and reorientation of the entire economic and social systems.

What is economic development in simple terms? Economic Development is programs, policies or activities that seek to improve the economic well-being and quality of life for a community. What “economic development” means to you will depend on the community you live in.

What are the 4 elements of economic development? These are (1) human resources, (2) natural resources, (3) capital formation, and (4) technology: These four wheels operate in rich and poor countries, although the mix and strategy for combining them will differ depending on the state of development.

What are the four types of economic development?

What is the economic definition of Adam Smith? Adam Smith “Economics is the science of wealth” This definition was given by Adam Smith. He is also known as the ‘father of economics. According to this definition, economics is a science of the study of wealth only.

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reorientation of the entire economic and social systems.

What are the 3 principles of economic development? Economic sovereignty is essential for economic sustainability. To live and make a living in a sustainable society, people must respect the economic principles scarcity, efficiency, and sovereignty.

What is otr tire? When conditions are rough and loads are high, Continental OTR tires come into their own. The letters “OTR” stand for “off the road”, and as this designation indicates, Continental OTR tires are specially designed for off-road applications, where they often have to operate on uneven, unfinished surfaces.

What is Goodyear OTR? Off-the-Road Tires Goodyear has a range of OTR tires for surface mining, underground mining, construction and quarry, and industrial and port handling operations.

What are off-the-road tyres? Off-road tires (Off-road tyre) are a category of vehicle tires that use deep tread to provide more traction on unpaved surfaces such as loose dirt, mud, sand, or gravel. Compared to ice or snow tires, they lack studs but contain deeper and wider grooves meant to help the tread sink into mud or gravel surfaces.

How do you read otr tire sizes? Taking the OTR tire of a mechanical single steel wheel vibratory roller as an example. 18.5-25-16PR: 18.5 (inches) refers to the cross-sectional width of the tire, - refers to the low-pressure tire, 25 (inches) refers to the tire inner diameter, that is the rim diameter, and 16PR refers to the tire level.

What is the star rating on OTR tires? Star Rating on OTR Tires One Star (*): Basic load capacity. Two Stars (**): Increased load capacity. Three Stars (***): Maximum load capacity for that tire size.

How big is the OTR tire market? KEY MARKET INSIGHTS The global Off-the-Road (OTR) tire market size was valued at USD 16.85 billion in 2023. The market is projected to grow from USD 17.48 billion in 2024 to USD 25.23 billion by 2032, exhibiting a CAGR of 4.7% during the forecast period.

Did Yokohama buy Goodyear OTR? An agreement has been reached for Yokohama to purchase Goodyear's OTR tire business. The OTR segment provides specialized tires for the mining and construction industries among others. The

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agreed acquisition price is US\$905m, with completion conditional on the usual regulatory approvals.

Why does Nascar use Goodyear? "Goodyear has been a trusted partner to the NASCAR industry since 1954, playing a critical role in our shared pursuit to deliver the best racing in the world," said Steve Phelps, president of NASCAR. "For more than 25 years, Goodyear Eagle tires have been the only component that connects the stock car to the racetrack.

What is OTR tire technician? Tire Technician - Commercial/OTR Perform repeated and repetitive movement consistent within the tire industry. Dismount and remount tires and wheels securely on vehicle.

What is the best off-road tire brand?

Are off-road tires bad on highway? Off-road tires are typically worse than street tires on pavement, due to the lack of contact patch area. On a street, they provide less grip and are quite noisy. However, there is a type of tire that provides adequate performance on all surfaces, including both paved roads and off-road.

Do off-road tires last longer? The short answer is: yes, off-road tires do wear out faster than street or highway tires. This is due to several factors, including: Softer Rubber Compounds: Off-road tires are designed with softer rubber compounds to provide better traction on a wide variety of surfaces, like rocks, mud, and sand.

What does 11R 22.5 mean on a tire? 11 = Section width in inches. R = Radial Tire. 22.5 = Rim diameter and rim type.

What do the numbers 265 70R17 mean? How to read your tire size long description. An arrow points to the numbers 265/70R17 115T on the inner part of the tire sidewall. 265 is the width, 70 is the aspect ratio, R stands for radial, 17 is the wheel diameter and 115T is the load index and speed symbol.

What is the load index of a OTR tire? The LOAD INDEX is an international numerical code for the maximum load a tire can carry at the speed indicated by its speed symbol under service conditions specified by tires brands. For example, if a tire has a load index of 92, it can support 1,389 pounds or 630 kg at maximum air pressure.

Should I buy H or T rated tires? H-Rated Tires: This is a perfect, average tire for most sedans and commuter vehicles. It might not seem to fit in our chart, but the tire speed rating “H” is rated for up to 130 mph. T-Rated Tires: This tire is often recommended for family sedans and vans. It's rated for up to 118 mph.

What are the 3 tire ratings? The UTQG tire rating system rates your tire's performance in three specific performance categories: treadwear, traction and temperature.

Should I get D or E rated tires? What's Better: Load Range D or E? Load range D and E tires have different weight capacities. For example, a load range D tire can handle 1,220 lbs at 65 PSI, while an E tires carry loads at 80 PSI. If looking at their load durability, load range E tires are better, but that is the only difference between them.

Which tire brand sells the most? Michelin held 15.1 percent of the global tire market in 2022, making it the largest tire manufacturer worldwide in terms of sales. Bridgestone ranked second with a share of 14.2 percent of the global tire market.

What tire company makes the most money?

Who is the largest tire manufacturer in the United States? Goodyear Tire & Rubber Co.: Company's headquarter is in Akron, Ohio, U.S. is the largest tire manufacturer in Americas.

What does otr mean? What's Over the Road (OTR) ? Over-the-road trucking is also referred to as long-haul trucking. This term refers to the mode of transportation that requires drivers to run from one coast to the next over interstate borders. Some over-the-road truckers even cross international borders to pick up and deliver loads.

What does OTR stand for in cars? Answer. The on-the-road price (OTR) is your all-in-one deal, covering the car's cost, first registration fee, number plates, and first-year road tax. It's everything you need to legally cruise the streets. Unlike the Recommended Retail Price (RRP), the OTR price considers your discount and includes all the essentials.

What does OTS mean for tires? Ontario Tire Stewardship (OTS) operated the Used Tires Program that kept light truck, medium truck, and off-the-road tires out of landfills so that they could be reused and recycled.

What's the difference between a passenger tire and a truck tire? The first and most obvious difference is that truck tires are simply larger and wider than passenger car tires.

What are the applications of reed sensor? Reed switches actuated by magnets are commonly used in mechanical systems as proximity sensors. Examples are door and window sensors in burglar alarm systems and tamperproofing methods. Reed switches have been used in laptops to put the laptop into sleep/hibernation mode when the lid is closed.

What is liquid level sensing? Liquid level sensors, also called liquid level switches, are designed to change state when immersed in a liquid. They are used to determine if a liquid or oil exists at a particular level in a container.

How do reed sensors work? How does a reed switch work? The switching mechanism is comprised of two ferromagnetic blades, separated by only a few microns. When a magnet approaches these blades, the two blades pull toward one another. Once touching, the blades close the normally open (NO) contacts, allowing electricity to flow.

Where can a reed switch be used? Reed switches are ideal for computer or PLC applications, and for all types of signalling in electronic controllers, timers and telemeter systems. In addition they are suitable for control of small relays and solid-state relays.

How do you check liquid level?

How do you use a liquid level indicator?

What is an example of a liquid level system? The control of liquid levels, for example in a process tank, is an important function. An example would be a hot water tank where water is removed, perhaps for washing down, and the level needs to be restored ready for the next wash cycle.

How to test a reed sensor? Testing a Reed Switch Set a DC Multimeter to measure resistance ? and place the leads between the Reed switch and the grounding screw of the bucket leads. Manually pin the tipping arm down to one side. With the Reed switch closed the observed resistance should be in the M Ω range.

How does the reed work? reed instrument, in music, any of several wind instruments (aerophones) that sound when the player's breath or air from a wind chamber causes a reed (a thin blade of cane or metal) to vibrate, thereby setting up a sound wave in an enclosed air column (in reed pipes) or in the open air (usually free reeds).

What is the difference between a reed switch and a reed sensor? A reed sensor is a device built using a reed switch that incorporates additional functionality, for example, the ability to withstand higher shock or vibration, molded packages with in-built magnets for form B or E type operation, easier mounting for automatic pick and place before SMD reflow, additional intelligent ...

How do you activate a reed switch? Although a reed switch can be activated by placing it inside an electrical coil, many reed switches and reed sensors are used for proximity sensing and are activated by a magnet. As the magnet is brought into the proximity of the reed sensor/switch, the device activates.

Can I use any magnet for reed switch? Neodymium magnets are the strongest type of magnets commercially available, and therefore even tiny magnets can be effective. Selecting a magnet for a reed switch requires several factors to consider; shape, strength, switch sensitivity, distance, and the angle between the magnet and the switch.

What triggers a reed switch? A simple magnet interaction opens and closes the reed contacts. More precisely, the presence (or absence) of a magnetic field produced by a permanent magnet or electromagnetic coil causes the contacts to open or close. No power is consumed when the switch contacts are open.

How does a liquid level sensor work? The sensor detects the echo from the surface and routes it back to the microprocessor for a digital representation of the distance between the sensor and the liquid level. Through constant updating of

received signals, the microprocessor calculates averaged values to measure liquid level.

How does a liquid level work? Float-based indicators: These indicators use a buoyant object, known as a float, which is connected to a rod or cable. As the level of fluid in the tank changes, the float moves up or down, which in turn moves the rod or cable. This movement can be used to indicate the level of fluid in the tank.

How do you calculate liquid level? $H = P/SG$ or $P = SG \cdot H$ H – Height of the liquid being measured (usually in inches, centimeters, meters, feet, etc.) P – Hydrostatic head pressure at the bottom of the tank (usually in inches of water column, feet of water column, bar, psi, Pascal's, etc.) $P = 1 \cdot 8 \text{ inches} = 8 \text{ inches W.C.}$

What is the correct way to read a liquid level?

What is the use of liquid level switch? Liquid level switches use mechanical or electronic techniques to detect fluid levels. They are used to automate opening or closing valves, draining or filling operations, starting or stopping pumps, or sending alarm signals to operators or control systems.

What are the applications of liquid level measurement? For example, it can be used for liquid level monitoring in tanks, tanks, pipelines and other containers. In petrochemical, food processing, water treatment and other industries, ultrasonic liquid level sensors can help achieve accurate control and management of liquids and improve production efficiency and safety.

What are Level 1 liquids examples? ? Milk-based fluids. For example, milkshakes, lattes and supplement drinks such as Ensure Plus. ? Fruit nectar and some fruit juices. For example, tomato juice and fresh orange juice with no pulp.

What is the method of liquid level? A pressure transmitter can be used to determine the liquid level in a tank, well, river or other body of liquid. The pressure at the bottom of a liquid filled container is directly related to the height of the liquid. The transmitter measures this hydrostatic head pressure and gives the resulting liquid level.

How does a liquid level control system work? There are two primary operations that liquid level control systems perform: pump up and pump down. Each is used for

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its own application purpose. Operation Pump Up: During this operation, the relay energizes the liquid conducts with the high-level probe when the system detects that the vessel is empty.

What are the applications of Reed Solomon codes? A Reed-Solomon (RS) code is an error-correcting code first described in a paper by Reed and Solomon in 1960 [9]. Since that time they've been applied in CD-ROMs, wireless communications, space communications, DSL, DVD, and digital TV.

What are the applications of Reed Muller codes? Reed-Muller codes are used to select the necessary paths between source and destination. Based on the graph connectivity matrix, these necessary paths, and the probability that a node is malicious, our algorithm determines all the paths in the network.

What are the application of sensor devices? The application of motion sensors is notable in many industries. They include automation, robotics, embedded systems, computers, and smart cars. Even they are used in home security systems to detect body heat and changes in temperature.

What are the applications of moisture sensor? Applications that typically need soil moisture sensors are watershed characterization, irrigation scheduling, greenhouse management, fertigation management, plant ecology, water balance studies, microbial ecology, plant disease forecasting, soil respiration, hydrology, and soil health monitoring.

How many errors can a Reed-Solomon code correct? The decoder can correct any 16 symbol errors in the code word: i.e. errors in up to 16 bytes anywhere in the codeword can be automatically corrected. For example, the maximum length of a code with 8-bit symbols ($s=8$) is 255 bytes.

What are the disadvantages of Reed-Solomon code? Drawbacks of Reed-Solomon codes First drawback: The length of the codewords n is bounded by q . Second drawback: It is not trivial to do the error correcting, although there are fairly good algorithms. You can use the analogue of the idea for the Reed-Solomon codes given above for more interesting rings of functions.

Where are reed relays used? Reed relays have also found numerous applications in RF and microwave switching applications. They are also used in applications which make use of their extremely low leakage current (in the order of femtoamperes) such as photomultiplier detectors and other extremely low current handling circuits.

What are the applications of reed switch sensor? Reed switches also play a significant role in home appliances and consumer electronics. From washing machines to refrigerators, these devices facilitate the control of water flow and door closing mechanisms. They enable the precise detection of multiple fluid levels, avoiding overflows, low levels and potential damage.

What is the Reed-Muller code? Reed–Muller codes are linear block codes that are locally testable, locally decodable, and list decodable. These properties make them particularly useful in the design of probabilistically checkable proofs. holds, the $RM(r, m)$ code produces a codeword consisting of 2^m bits.

How do you use a reed switch circuit?

What are the 3 uses of sensors? These are just a few examples of the numerous uses of sensors—collecting data, improving efficiency, enhancing safety, and advancing our understanding of the world around us.

How are sensors used in real life? Many vehicles, including automobiles, trains, buses, etc., employ sensors to monitor petroleum temperature and pressure, jets and steering systems, and so many more. Magnetic sensors are used to detect movement by the use of the magnetic field of the earth.

What are remote sensing devices used for? Special cameras collect remotely sensed images, which help researchers "sense" things about the Earth. Some examples are: Cameras on satellites and airplanes take images of large areas on the Earth's surface, allowing us to see much more than we can see when standing on the ground.

What are the applications of liquid level sensor? Here, liquid level sensors are used to monitor and control the water levels in massive water reservoirs; this is done to ensure that processes such as electricity generation function optimally. Without

industrial level sensors, the operations in industrial industries would not function as required.

What are the real life applications of humidity sensors? For example, humidity sensors are most often used in industries such as HVAC, biomedical, food processing, pharmaceuticals, meteorology, microelectronics, agriculture, and structural health monitoring.

What does moisture sensor detect? Soil moisture sensors measure or estimate the amount of water in the soil. These sensors can be stationary or portables such as handheld probes. Stationary sensors are placed at the predetermined locations and depths in the field, whereas portable soil moisture probes can measure soil moisture at several locations.

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