

Thermodynamic processes:

Process in which state of thermodynamic variables like P, V, T changes are called thermodynamic processes.

Given fixed number of moles / closed system ($n = \text{constant}$) under ideal conditions is assumed ($PV = nRT$ is applicable)

Constant volume process / Isochoric process / Isometric process:

Gas is confined in a piston cylinder arrangement having fixed piston.

$$V = \text{constant}$$

$$PV = nRT \Rightarrow \frac{P}{T} = \left(\frac{nR}{V}\right) = \text{const.}$$

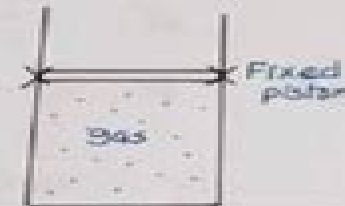
Process equation: $\frac{P}{T} = \text{constant}$

Between two states (P_1, V, T_1) and (P_2, V, T_2)

$$\text{one can use: } \frac{P_1}{T_1} = \frac{P_2}{T_2} \quad \left\{ T_1, T_2 \text{ must be in kelvin} \right\}$$

Example: A given mass of an ideal gas is confined in a vessel of fixed volume. At 27°C pressure of the gas is found to be 2.4 atm . Find its pressure if the gas is heated to 52°C .

$$\begin{aligned} \text{Sol: } P_1 &= 2.4 \text{ atm} & , & \quad T_1 = 273 + 27 = 300 \text{ K} \\ P_2 &= ? & , & \quad T_2 = 273 + 52 = 325 \text{ K} \\ \frac{P_1}{T_1} &= \frac{P_2}{T_2} \Rightarrow P_2 = \frac{T_2}{T_1} \times P_1 = \frac{325}{300} \times 2.4 = 2.6 \text{ atm} \\ & & & \quad \text{(answer)} \end{aligned}$$



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6x 7x 2 6x subtract the polynomials $x^2 + 5x + 6$ and $x^2 + 2x + 5$ $2x^2 + 6x + 5$ $2x^2 + 6x + 5$ $2x^2 + 6x + 5$ $2x^2 + 6x + 5$

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web adding and subtracting polynomials 1 multiple choice choose the one alternative that best completes the statement or answers the question add and write the resulting polynomial in descending order of degree 1 $8x^4 + 11x^5 + 19x^9$ b $12x^6 + 3x^9$

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web the set of polynomials is closed under addition and subtraction so the sum or difference of any two polynomials is also a polynomial to add polynomials add like terms you can use a vertical or a horizontal format adding polynomials find the sum a $2x^3 + 5x^2 + x + 2x^2 + x^3 + 1$ b $3x^2 + x^6 + x^2 + 4x + 10$ solution a

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web kuta software infinite pre algebra name adding and subtracting polynomials date period simplify each expression 1 $5n^3 + 13n^3 + 26a + 3a^2 + 2a^2 + 3a + 3x^2 + x + 8x + 2x^2 + 4a^2 + 4a^3 + 3a^3 + 8 + 5 + 5x^2 + 4 + 5 + 5x^3 + 6 + 8n^2 + 2n^3 + 6n^3 + 8n^2$

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with polynomials multiple choice 3 minutes 1 pt x 3 2x 2 3x 2x 5 3x 4 2x 6 3x 3 5x 9 5x 3 multiple choice 30 seconds 1 pt
classify by number of terms 7x 3 8x 2 4x 9 monomial

section 2 4 adding and subtracting polynomials proprofs - Nov 07 2022

web mar 20 2023 the given statement is true when adding or subtracting polynomials like terms can be simplified by adding or subtracting their numerical coefficients however the exponents of like terms should not be added or subtracted as they represent the degree of the variables in the polynomial