

# Resumão

especial

# MATEMÁTICA FINANCEIRA COM A HP 12C

## A CALCULADORA

Lançada em 1981, a HP 12C (chamada popularmente de HP) é a calculadora mais conhecida e utilizada por quem necessita trabalhar com cálculos financeiros.

**Avançada** — trabalha com muitas funções e memórias — e **programável** — possui funções para edição de programas, número ampliado de memórias, etc. —, utiliza o método RPN (sigla em inglês de *Reverse Polish Notation*, ou notação polonesa reversa), criado pelo cientista australiano Charles Hamblin nos anos 50 a partir de um aprimoramento do método de notação polonesa, conhecido desde os anos 20. Esse sistema, combinado com outras características da HP, que é o funcionamento com **pilha operacional**, possibilita realizar operações lógicas encadeadas, com a inserção de todos os dados de uma única vez, diferentemente do que ocorre com as calculadoras que operam no modo algébrico, em que os cálculos complexos devem ser executados etapa a etapa. É por conta desse modo de funcionamento que na HP os elementos devem ser inseridos antes da operação.

Operação	Notação algébrica (calculadoras comuns)	Notação polonesa reversa (HP 12C)
$a+b$	$a+b$	$a+b$
$a+b \times c$	$(a+b) \times c$	$a+b \times c$
$\frac{a-b \times c}{d \div e}$	$((a-b) \times c) \div (d \div e)$	$a-b \times c \div d \div e$

Assim, para realizar a operação  $4+6$  na HP, procede-se da seguinte forma:



Ou seja, digitam-se primeiro os elementos da operação e, por último, a operação (no caso, soma), sem a necessidade de digitar [=], tecla que existe na calculadora HP (no visor Pitagoras, a tecla [=] existe, porque um dos diferenciais desse modelo é permitir o uso no modo algébrico de cálculo).

## A PILHA OPERACIONAL

A HP utiliza um processo de armazenamento de dados denominado **pilha operacional**, que nada mais é do que um arquivo com quatro registradores (X, Y, Z e T) nos quais são "guardados" os valores necessários à realização das operações. Usa-se o nome "pilha" porque os registros vão sendo "empilhados" dentro da máquina; os dados apresentados no visor são os relativos ao registrador X.

A medida que são inseridos novos dados, eles vão sendo "empilhados" até a realização de operações subsequentes. Utilizando o exemplo anterior, é possível compreender, pela figura a seguir, como funciona a pilha operacional da HP.

## USO DO TECLADO

Para selecionar a função secundária localizada na linha acima de uma tecla, aperte a tecla [f] e, em seguida, a tecla de função.

Para selecionar a função primária impressa na face superior de uma tecla, aperte somente a tecla.

Para selecionar a função secundária impressa em azul na face inferior de uma tecla, aperte a tecla [g] e, em seguida, a tecla de função.



Tecla	Registrador	Atividade
[f]	T	Limpa os registros
[1]	X	O número 1 aparece no visor
[2]	Y	O número 2 aparece no visor
[3]	Z	O número 3 aparece no visor
[4]	T	O número 4 aparece no visor
[5]	X	O número 5 aparece no visor
[6]	Y	O número 6 aparece no visor
[7]	Z	O número 7 aparece no visor
[8]	T	O número 8 aparece no visor
[9]	X	O número 9 aparece no visor
[0]	Y	O número 0 aparece no visor
[.]	Z	O ponto decimal aparece no visor
[+/-]	T	O sinal negativo aparece no visor
[=]	X	O resultado aparece no visor

Como dito, é a combinação do sistema RPN e do funcionamento com pilha operacional que permite otimizar as operações na HP em relação às calculadoras convencionais.

Vejam os seguintes exemplos:

$$(7+3) \times (15-4)$$

Enquanto em uma calculadora algébrica (comum) é necessário realizar cada operação colocada entre parênteses de uma vez e anotar o resultado, na HP é possível realizar todas as operações simultaneamente:



Note que as operações são feitas seguindo a hierarquia algébrica (primeira, a que está dentro dos parênteses). Assim, a soma entre os parênteses é a última etapa, precedida ape-

nas depois que a calculadora já armazenou na pilha operacional o resultado da operação de cada um deles.

*Nota: a tecla ENTER somente é utilizada para a introdução dos primeiros números. Isso porque, após o segundo número, em cada operação, é dado um comando (somar e subtrair). Assim, a calculadora pode identificar que o número "armazenado" não é o primeiro quando se introduz o primeiro valor. Portanto, ENTER "informa" à calculadora que o próximo número a ser digitado não compõe mais o primeiro elemento da conta e que ele pode armazenar aquele valor já introduzido na pilha operacional.*

## TESTE SUA CALCULADORA

Para realizar um teste rápido de funcionamento, proceda da seguinte forma: desligue a calculadora. Com a HP desligada, aperte a tecla correspondente ao sinal de multiplicação [x]. Mantendo a tecla pressionada, tecla [=] e, em seguida, tecla [f]. A calculadora apresentará a mensagem "running" (processando) e, na sequência, o visor mostrará todos os bits ligados, com o sinal (-) à frente, dez números e todas as funções primárias, o que demonstra que sua calculadora está em perfeito funcionamento. Apertando qualquer tecla, a máquina voltará ao modo normal.

## MEMÓRIA

A memória da HP é constante, ou seja, conserva os dados armazenados mesmo quando a calculadora é desligada. Há 20 memórias, que são armazenadas em registradores numerados de 0 a 9 e de 0 a 9 (coloca-se o ponto antes do número do registrador).

Por exemplo, para armazenar o número 15 no registrador 3 e o número 71 no registrador 1:



Para recuperar os dados:



# Manual Da Hp 12c Platinum

**K Morrison**



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**Scientific American**, 1888      **Mining and Scientific Press**, 1905      **Energy Research Abstracts**, 1977

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### **Table of Contents Manual Da Hp 12c Platinum**

1. Understanding the eBook Manual Da Hp 12c Platinum
  - The Rise of Digital Reading Manual Da Hp 12c Platinum
  - Advantages of eBooks Over Traditional Books
2. Identifying Manual Da Hp 12c Platinum
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Manual Da Hp 12c Platinum
  - User-Friendly Interface
4. Exploring eBook Recommendations from Manual Da Hp 12c Platinum
  - Personalized Recommendations
  - Manual Da Hp 12c Platinum User Reviews and Ratings

- Manual Da Hp 12c Platinum and Bestseller Lists
- 5. Accessing Manual Da Hp 12c Platinum Free and Paid eBooks
  - Manual Da Hp 12c Platinum Public Domain eBooks
  - Manual Da Hp 12c Platinum eBook Subscription Services
  - Manual Da Hp 12c Platinum Budget-Friendly Options
- 6. Navigating Manual Da Hp 12c Platinum eBook Formats
  - ePub, PDF, MOBI, and More
  - Manual Da Hp 12c Platinum Compatibility with Devices
  - Manual Da Hp 12c Platinum Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Manual Da Hp 12c Platinum
  - Highlighting and Note-Taking Manual Da Hp 12c Platinum
  - Interactive Elements Manual Da Hp 12c Platinum
- 8. Staying Engaged with Manual Da Hp 12c Platinum
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Manual Da Hp 12c Platinum
- 9. Balancing eBooks and Physical Books Manual Da Hp 12c Platinum
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Manual Da Hp 12c Platinum
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Manual Da Hp 12c Platinum
  - Setting Reading Goals Manual Da Hp 12c Platinum
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Manual Da Hp 12c Platinum
  - Fact-Checking eBook Content of Manual Da Hp 12c Platinum
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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