

Resumão

especial

MATEMÁTICA FINANCEIRA COM A HP 12C

A CALCULADORA

Escrevida em 1981, a HP 12C (chamada popularmente de HP) é a calculadora mais conhecida e utilizada por quem trabalha 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 do seu aperfeiçoamento do método de notação polonesa, conhecido desde os anos 20. Esse sistema, combinado com outras características da HP, que é o funcionamento com pilhas operacionais, possibilita realizar operações básicas encadeadas, com a inserção de todos os dados de uma única vez, diferentemente do que ocorre com as calculadoras que operam no modo algebrico, em que os cálculos complexos devem ser encadeados etapa a etapa. E por causa desse modo de funcionamento que na HP os cálculos devem ser inseridos antes da operação.

Operação	Método algebrico (calculadora comum)	Método Polonês (calculadora HP12C)
$a+b$	$a+b$	$a b +$
$a-b$	$a-b$	$a b -$
$a \cdot b$	$(a+b)/b$	$a b \cdot$
a/b	$(a \cdot b)-(b \cdot b)/b$	$a b /$

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 [=], sócia que invierte na calculadora HP (ou versão Platinum, a tecla [=] existe, porque nela desse modo não é possível o uso no modo algebrico 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. Usar-se o nome “pilha” porque os registradores são chamados “pilhas” dentro da máquina; os dados apresentados no visor não são os registradores X.

A medida que são inseridos novos dados, elas são sendo “empilhadas” até a realização da operação subsequente. 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 trigonométrica inversa não basta apertar a tecla de uma só vez, aperte a tecla [F1] e, em seguida, a tecla de função.

Para selecionar a função potência, impõe-se na tecla superior da uma tecla, aperte somente a tecla.

Para selecionar a função subtração (impõe-se com a tecla inferior de uma tecla, aperte a tecla [F2] e, em seguida, a tecla de função).



Operação	Registrador	Registrador	Registrador	Registrador
$X = 0$	X			
$Y = 0$		Y		
$Z = 0$			Z	
$T = 0$				T
$X = 4$	X			
$Y = 4$		Y		
$Z = 4$			Z	
$T = 4$				T
$X = 4$	X			
$Y = 4$		Y		
$Z = 4$			Z	
$T = 4$				T
$X = 6$	X			
$Y = 6$		Y		
$Z = 6$			Z	
$T = 6$				T
$X = 10$	X			

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

Vejamos a seguinte expressão:

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

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



Nota que as operações são feitas seguindo a hierarquia algébrica (primeiro, o que está dentro dos parênteses). Assim, a soma entre os parênteses é a última etapa, procedida ape-

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

Nota: a tecla [ENTER] serve para indicar que se está inserindo os primeiros números. Assim, por exemplo, após o segundo número, deve existir operação, é só apertar uma comando (somar e subtrair). Assim, a calculadora pode identificar que o número “acabou”. Isso só ocorre quando se digitam os primeiros dígitos. Portanto, [ENTER] “informa” a calculadora que o primeiro número a ser digitado não completa mais o primeiro elemento da soma e que ela pode armazenar aquele valor já introduzido na pilha operacional.

TESTE SUA CALCULADORA

Para realizar um teste rápido de funcionamento, proceda da seguinte forma: identifique a calculadora. Cosa a HP desligada, aperte a tecla correspondente ao sinal de multiplicação [x]. Mantendo a tecla pressionada, toque [x] e, em seguida, [x]. A calculadora apresentará o mensageiro “Inverso” (inversor) e, na sequência, o visor mostrará todos os dígitos, com o sinal (-) à frente, dez zeros e todos os funções presentes, o que demonstra que sua calculadora está em perfeito funcionamento. Apertando quaisquer tecla, a máquina volta 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 (codificadas em pares de zeros entre o número do registrador).

Por exemplo, para armazenar o número 34 no registrador 3 e o número 78 no registrador 7:



Para recuperar os dados:



Manual Da Hp12c

H Kauffman

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COMO

AUMENTAR SEU PATRIMONIO LILIAN GALLAGHER, Neste livro são discutidas questões como mercado empresarial imobiliário e financeiro. Busca ajudar e incentivar as pessoas na busca do crescimento e da independência financeira, destinado a pessoas que não entendem de finanças e querem ou precisam aprender a lidar com suas finanças pessoais. São apresentados produtos financeiros destinados à pessoa física e abordadas questões como aposentadoria e heranças, para que o leitor receba orientação de que precisa para viver bem com seu dinheiro. **Educação Financeira E Finanças Pessoais**

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ABSTRACT This book includes concepts examples and exercises about financial education and personal finance 1 Introduction which addresses financial education making a synthesis on personal goals money debts retirement insurance and personal finance referring to financial investments term purchases and financial traps 2 Financial control which demonstrates how work the tables of payment receipts cash flow financial investments and equity position 3 The time value of money which includes the study of interest rates the basic inflation indexes the rate of currency devaluation the real interest rate the present value the future value and the use of HP12C calculator 4 Financial planning which examines saving and life cycle social security private pension career expenses and the decision to buy or rent a property 5 Financial investment which addresses the factors modalities investment funds and income tax on financial investments 6 Digital currency which deals with bitcoin blockchain system security and the generation of bitcoins 7 References which indicates the bibliography consulted 8 Attachments which includes the answers to the review questions a list of exercises with the solution a questionnaire model on numerical ability and risk profile and a summary of investment funds

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