HP-25 Program Form

Title **Savings w/ Wage Growth and Asset Inflation** Page **1** of **2**

Switch to PRGM mode, press ⑨ PRGM , then key in the program.

LINE	CODE	KEY ENTRY	X	Y	Z	T	COMMENTS
00							
01	24 00	RCL 0	P				
02	24 07	RCL 7	S	P			
03	14 51	f x≥y					
04	74	R/S	S				
05	24 05	RCL 5	f				SUCCESS
06	24 02	RCL 2	n	f			
07	14 41	f x≤y					
08	13 10	GTO 10					
09	74	R/S	n				CONTINUE
10	24 01	RCL 1	D				FAIL
11	23 51 07	STO + 7					Add to Balance
12	24 04	RCL 4	r				
13	61	X	rD				
14	23 51 01	STO + 1					Wage Growth
15	24 00	RCL 0	P				
16	24 03	RCL 3	g				
17	61	X	Pg				
18	23 51 00	STO + 0					Asset Inflation
19	24 07	RCL 7	S				
20	24 06	RCL 6	i				
21	61	X	iS				
22	23 51 07	STO + 7					Savings Interest
23	01	1					
24	23 51 02	STO + 2					
25	13 01	GTO 01					
26							
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Left margin annotations:
- test for success and failure { lines 01–08
- save { lines 09–10
- wage growth { lines 11–13
- asset inflation { lines 14–18
- add interest to balance { lines 19–22
- Increment period { lines 23–25

REGISTERS

R_0 — Asset Price P 50,000
R_1 — Payment D 1,000
R_2 — Period n 0
R_3 — Asset Inflation g 5/12%
R_4 — Wage Growth r 5/12%
R_5 — Fail Period f 120
R_6 — Savings Interest i 3/12 = 1/4 %
R_7 — Savings Balance S 0

Succeeds with
63189.54
$n = 53$

Fail case:
$g = 12/12 = 1\%$
$r = 4/12 = 1/3 \%$
$i = 2/12 = 1/6 \%$

162049.58
165019.34

HEWLETT hp PACKARD

HP-25 Program Form

Title: Savings with Wage Growth and Inflation

Programmer: Brian Hill

STEP	INSTRUCTIONS	INPUT DATA/UNITS	KEYS				OUTPUT DATA/UNITS
	All registers						
	on reverse						
	must be						
	filled in						
	as documented.						
	Program will						
	stop with						
	final period						
	if failure.						
	Program will						
	stop with						
	saved amount						
	if success.						