

(a)	574.20 x0.1 = \$57.42.
6	S= Vo(1-r)n
	5= 42000 (1-0.15) 4
Salu	age 5=\$ 21924.26 (2dp). after 4gs.)
0	i, Rosetta had a larger sum as she had been deposition
	money for dable the period of Derek. Hence she
	recieved the compand intrest over a larger longe
	amoint of time.
	ii) $A = M = (1+r)^{N} - 1$ $r = 0.06 \div 12 = 0.005$ po morth.  D=n= $20 \times 12 = 240$ payment.  R=n=35 \times 120 payment.
	Derek = A = 400 \( \begin{picture} \( \text{(1.005)} \)^{240} \\ \( \text{(0.005)} \end{picture} \)

\*

Rosetta = A = 200/(1.00s/201-

A=\$184816.3581

amounts after forther syears.

A =\$28 4942-0597

T. P.O., OIWBI



1,5			
2000	Ha	Derel	1

2001 = 200903-116327 = 84576 = difference between m 2001

2006 = 284942-184816 = 100/26. = difference betweenin 2006

so The diffrence between the investments will continue to grow larger.

di,0.0052 is used because the intrest; compounded

monthly. 6.24% \_ 0.0628 -12 months - 0.0052.

ii, A = 69684x0.0052 - \$362.3568

· · A = \$362.40 (Ide)

B= 69684+362.40-680

·· 13 = \$ 69366.40

iii, (1) 680x (1.0052) = \$60590.101

(2) 680× (1.0052) -1 = 70000

=73738.9.n=160

-72240.2 n = 159

= 67504.9. n = 140

= 69124.90) H=145

· 0 145 is amore reasonable value for Me