

!

345!6478!94: ; 4<=6!>=?7@78?!A=6!8>; ; B7!>=?7@78?!6>C7@D!

!

- E!>=?7@78?!>8!4=BF!; A>6!4=!G7!4@H>=AB!A: 4<=?!7A9G!F7A@!

!

- E!+=?7@78?!>8!; A>6!4=!G7!4@H>=AB!A: 4<=?!A=6!G7=!G>8!=75!A: 4<=?!K794: 78!
?G7!=75!; @>=9>; B7!LG>8!>8!G7=!@7>=M78?76!A?!G7!8A: 7!A?7!LG7!; @>=9>; B7!7A@=8!A==<AB!>=?7@78?!K<?!
AB84!G7!>=?7@78?!7A@=8!>=?7@78?!A8!57BB!

!

E!N4<!GAM7!A!9G4>97!4C!67; 48?>=H!OP--!--!>=?4!A!KA=Q!A994<=?!GA?!; AF8!. R!8>; ; B7!>=?7@78?!A!

F7A@!4@!. R!94: ; 4<=6!>=?7@78?!A!F7A@!N4<@!: 4=7F!5>BB!K7!>=?G>8!A994<=?!C4@!P!F7A@8!%GA?!>8!G7!K7??7@!
67ABD!

'>; ; B7!+=?7@78?E!+S; @?!

!

$I = prt$

$$I = 500 \cdot \frac{2}{100} \cdot 5$$

$$I = 5 \cdot 100 \cdot \frac{2}{100} \cdot 5$$

$$I = 5 \cdot 2 \cdot 5$$

$$I = 50$$

!

∴!AC?7@!P!F7A@8!F4<!5>BB!GAM7!OPP-!

!

!

#4: ; 4<=6!+=?7@78?E!!

!

N7A@!1E!

$$= \quad + \quad !$$

!

!

N7A@!. E!

$$= 500(1 + 0.02) + 500(1 + 0.02)(0.02)$$

$$!= 500(1 + 0.02)(1 + 0.02) \quad !$$

$$= 500(1 + 0.02)^2$$

!

N7A@!2E!!!

!

!

N7A@!TE!

!

!

N7A@!PE!

$$= \left(\frac{1}{1} \right) \left(\frac{1}{1} \right)$$

$$= \left(\frac{1}{1} \right)$$

!

E!

!

[!67; 48>!4C!OP-- -I--!C@4: !&=9B7!" 4=7F!* AH8!5A8!: A67!>=!A!@<8?!C<=6!?GA?!; AF8!\ R!>=?7@78?!

94: ; 4<=676!V<A@?7@BF!!LG7!KABA=97!5>BB!K7!H>M7=!?4!F4<!2-!F7A@8!AC?7@!F4<!H@A6<A?7!C@4: !94BB7H7!!345!

: <9G!5>BB!F4<!@797>M7!5G7=!?G7!@<8?!C<=6!>8!C>=ABBF!H>M7=!?4!F4<D!345!: <9G!: 4@7!54<B6!F4<!H7?!>C!>G7!

A994<=?!57@7!94: ; 4<=676!K>]: 4=?GBFD!

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%G7=!57!94: ; 4<=6!94=?>=<4<8BF!4<@!<: K7@!94=M7@H78!4!G7!<: K7@!e!%GA?!5>BB!G>8!64!74!4<@!
 C4@: <BAD!

Y7?! K7!67C>=76!A8! $\frac{\#}{x! \infty \%}$ $\frac{\&^x}{x}$!

= - ! = . !

$$A P \left(1 + \frac{r}{n} \right)^{nt}$$

$$A P \left(1 + \frac{r}{nr} \right)^{urt}$$

$$A P \left(1 + \frac{r}{ur} \right)^{urt} \quad !!!!!$$

$$A P \left(1 + \frac{1}{u} \right)^{urt}$$

$$A P \left(\left(1 + \frac{1}{u} \right)^u \right)^{rt}$$

$$A P e^{rt}$$

!
!
!
!
!

' 4!57!=45!GAM7!A!=75!C4@: <BA!GA?!57!9A=!<87!74!C>=6!94=?>=<4<8!94: ; 4<=6>=HI!

$$! A = P(e)^{rt} !5G7@7!$$

! !
LG7!67; 48>!4C!OP---!-!-!C@4: !&=9B7!" 4=7F!*AH8!5A8!: A67!>=!A!@<8?!C<=6!?GA?!; AF8!\R!>=?7@78?!
94: ; 4<=676!6A>BF!!LG7!KABA=97!5>BB!K7!H>M7=!74!F4<!2-!F7A@8!AC?7@!F4<!H@A6<A?7!C@4: !94BB7H7!345!: <9G!
5>BB!F4<!@797>M7!5G7=!7G7!@<8?!C<=6!>8!H>M7=!74!F4<D!345!: <9G!: 4@7!54<B6!F4<!H7?!7G7=!>C!>?!57@7!
94: ; 4<=676!94=?>=<4<8BFD!

