WY'WtaYhchc

[fUXi Uh]cb" 5 Xj]gcfmgYfj Yg Ug U \ca Y VUgY Zcf gYWbXUfmghi XYbhg' ±h]gk \YfY k Y `cc_ UhgWYXi `]b[ž Wa a i b]hmVi]`X]b[žgYfj]W `YUfb]b[ž`YUXYfg\]džWbZYfYbWgždcfhZc`]cgžUbX a i W a cfY"

G h\ [fUXYfgg\ci`X VY fYUXmhcghUfhh\Y]fWUggYgUZhYf]bhYbg jYgk]h\ h\Ygidd`]Yg`]ghYX VY`ck" 5 Xj UbWYX bch]WYk]``VY dfcj]XYX Zcf UbmUXX]h]cbU gidd`]Ygh\UhaUmVYfYei]fYX Zcf gdYV]JU dfcYVVfg
h\fci [\ci hh\Y nYUf"
☐ DYbVJyg
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☐ 7 c`cfYX dYbVJ/gYhg
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\Box f(\pm dc \underline{W} Yh \underline{Z} :XYfg

DUFYDH#Chi XYbh7cbbYWhgYfjYgcb`mUgcbYhcc`UbX]gU`]a]hYXk]bXck]bhch\YWUgdfcca" #nXcYgbch fYd`UwY YZZYWhjjY Waa a i b]WUhjcb VYhk YYb ghi XYbhžhYUW\YfžUbX dUFYbhg' GY`ZUXjcVWwhjgU`]ZY g_j`"
D`YUgY YbWai fU[Y nci f W]`Xhc\UJY Ub cdYb X]Uc[i Yk]h\ h\Y]f hYUW\YfgUbX i gY Ghi XYbh7cbbYWh' 5gU dUFYbhž]Znci \UJY UbmZi fh\Yf ei Yghjcbgcf WabWfbgh\fci [\ci hh\Y mYUfzd`YUgY Xc bch\YgjhUhY hc WabhUMnci f WJ`X'ghYUW\Yf Y]h\Yf h\fci [\ Ya U]`cf gYhhjb[i d Uhja Yhc a YYh]b dYfgcb"
5G8 9a U]`. `UghbUa Y_ZfghbUa Y4 UbX_%&"cf[

@ub[i U[Y 5fhg	?Un\Yf]bY?fUngM	CcVJU Chi XJYg	5``]Y 6i ff]g
A Uh\	5f]_U8fU_Y	GVJYbVY	5f]_U8fU_Y
6UbX	6fUX`Ym< Ua]`Ircb	C fWlYgfU	5 XUa GhYk Ufh
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91 d'cfUncfmCdUb]g\	≟UbU?YfgMVU a	±ohfcXiWhcfm8fUaU	FUMY; fY[cfm
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 $5gUgWcc`Wcaaib]MikYaU\underline{Y}YjYfmYZCfhhcWcaaib]WhYYZJWWbhmk\]'YfYXiWJb[dUdYfkUghY''H\YWghgcifWYZcfWffYbh]bZcfaUh]cbUbXidWcaWcaYcaY$

gYg

[fYUNYf YZZcfhž`ck [fUXYgacfYcZhYbWigYghiXYbhghck]h\XfUkZfca`YUfb]b["WY_bckh\UhghiXYbhgUfY`YUfb]b[UbX [fck]b[]b WUggYUWX XUnžYjYb]ZUbUgg][baYbh]gbchhifbYX]b"

5 a]b]a i a) \$% gWcfY XcYg bch]bX]WWhY dYfZcfa UbWY bcf a UghYfra]b ZWWc]h]g gh]`` VY`ck dUgg]b[" H\]g a]b]a i a gWcfY Uj c]Xg`ck Yf]b[U [fUXY gc g][b]Z]WWbhimh\Uh]ha UmVY X]ZZ]WV`hhc fYWcj Yf" H\Y]bhYbh]cb]g h\Uh h\Y a]b]a i a gWcfY WWb \Y`d hc a chjj UhY h\Y ghi XYbhhc Wca d`YhY h\Y k cf_" A]b]a i a gWcfYg k]`` VY a Uf_YX UgÎ A \pm GGB; \pm 5 GG+ B A 9B HÏ]b h\Y [fUXYVcc_žhc]bX]WWY h\Uh UMI]cb g\ci `X VY HU_Yb UbX h\Y Ugg][ba Ybha i ghVY gi Va]hYX]b cfXYf hc fYWY]j Y Ub UWWYfUhY [fUXY"

 $H\gg\ci`X\ bch\VY\] bhYfdfYhYX\ Ug`Yb]YbWfaVi\ h\] bghYUX\ Ug\ Ub\ cddcfhi\ b] hm5\ a\] b] a\ i\ a\ gWcfY\ U`ck\ g\ Zcf [fUXYg\ h\Uh\UfY\ a\ cfY\ a\ Uh\Ya\ Uh]WJ`mUWVfUhY/k\ \YfYUg\ U\ nYfc\ XcYg\ bch\ UWVfUhY`mfYdcfh\ Ughi\ XYbhg _bck\ `YX[Y''$

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ı zi bXYfgrLbX]b[h\Y hcd]Wcf h\Y X]fYWn]cbgcZub Ugg][ba Ybh]gUVUff]Yf hc Waa d`Yh]cbžghi XYbhgg\ci `X hU_k]h\ h\Y]f hYUW\Yf WY k Ubhhc YbWai fU[Y ghi XYbhg hc Waa a i b]WhY k]h\ h\Y]f hYUW\Yfgf][\huk Um]Z h\YmbYYX YI hfUgi ddcfh' C ddcfhi b]h]Yg Zcf WaffYVn]cbg UbX]a dfcj YX fYgi Va]gg]cbga UmUgc

 $W(f)Y(f_X)Y$

8 i f]b[h\Y G]l h\; fUXY \(\frac{1}{2}\) hroid k]``a YYhoi fai g]WX]fYWfofg' H\Ymk]``d`UmUj Uf]YhmoZ]bghfi a Ybhg Zof nooido Voh\ gYY UbX\YUf' \(\frac{1}{2}\) gUk cbXYfZ\`h]a Yho Ug_ei Ygh]cbg UbX`YUfb Uvci hh\Y]bghfi a Ybhodh]cbg Uj Uj`Uv`Y Zof G]l h\ [fUXYfg' Yci k]``h\Yb\Uj Y gca Yh]a Yho h\]b_ Uvci hnooif W\c]W UbX fY[]ghYf Zof 6Y[]bb]b[6UbX of 6Y[]bb]b[C fW\YghfUXi f]b[h\Y *h\; fUXY \(\frac{1}{2}\)bhYbg]j Y" Yci k]`` \(\frac{1}{2}\)bhYX Ub]bghfi a Ybh VYZofY WUggYg VY[]b"

G]I h\ [fUXYfg UfY YI dYVMYX hc dfUM]W h\Y]f VUbX#cfW\YghfU]bghfi a Ybhg Ua]b]a i a cZZj Y XUng dYf k YY_ Zcf Uddfcl]a UhY`mhYb!a]bi hYg dYf XUmUh\ca Y" H\]g]g h\Y a]b]a i a YI dYVMUh]cb hc gYY dfc[fYgg UbX hc UW\]Yj Y h\Y bYWggUfmdYfZcfa UbW g_]``g fYei]fYX Zcf gi WWggZl` YbX!cZh\Y!nYUf dYfZcfa UbWg gi W\ Ug Gcb]W6cca "

8 i f]b[h\Y G]l h\; fUXY ±bhYbg]j Yžghi XYbhgk]` VY UV'Y hc df]cf]h]nY h\Y]f Y`YVMjj Y W(c]W\g d\ng]\W\'YXi W\h]cbžUfhz<]gdUb]\M(Yc[fUd\mUbX W)`hi fYžnc[UUbX]bhfcXi W\fcfmXfUa U'

 $\label{thm:convergence} $$H\YfY k]$``cWVLg] cbU`mVY ULg] [ba Ybhg UbX hUg_g hc VY Wea d`YhYX ci hg]XY cZWLlgg h]a Y" < ca Yk cf_a Um]$$bWi XY k cf_h\Uh k Ug bch Wea d`YhYX Xi f]b[WLlgg h]a Yždfc YVVlgž UbX ghi Xm]b[" H\Y]bhYbh]g hc \Y`d ghi XYbhg XYj Y`cd ghfcb[ghi Xm\UV]hgždfUVlyW h]a Y a UbU[Ya Ybhž UbX [U]b]bXYdYbXYbW" < ca Yk cf_g\ci `X bchfY[i `Uf`mYl WYX cbY \ci f dYf Yj Yb]b[" $$$