

 $5 \ W_{a}^{T} d \ U_{b}^{T} = \frac{1}{2} f^{T} b \ Gdf = \frac{1}{2} f^{T} b \ Gdf$



; fYmbc`Xg`5j Ybi Yž`Gdf]b[`<]``ž: `cf]XUž`I G5`!`=b`U`ghUfh`]b[]bW]XYbhYUf`m`Gi bXUm'a cfb]b[ž'Z]fYZ][\hYfg`fYgdcbXYX`hc`U \ci gY`Z]fY`]b`Gdf]b[`<]``ž: `cf]XUž`gdUf_YX`Vm`U`W\]`X`d`Um]b[`k]h\ U``][\hYf`X]gWcj YfYX`Uhcd`h\Y`fYZf][YfUhcf"`H\]g`i bgYhh`]b[`Yj Ybh i bZc`XYX`Ufci bX`a]Xb][\h`cb`h\Y`' \$\$\$`V`cW_`cZ'; fYmbc`Xg 5j Ybi Yžk \YfY`Ya Yf[YbWn`fYgdcbXYfg`Zci bX`U`a UhhfYgg`UV`UnY]b`U`W\]`X g`VYXfcca ": cfhi bUhY`mž`Z]fYZ][\hYfg`ei]W_`m YI h]b[i]g\YX`h\Y`ZUa Ygž`UbX`bc`]b^i f]Yg`k YfY`fYdcfhYX"`:]fY cZZ]W]U`g`hcc_`h\Y`cddcfhi b]hm`hc`gdYU_`k]h\`h\Y`W\]`X g`dUfYbh UVci h`h\Y`]a dcfhUbWf`cZ`mci h\`Z]fY`dfYj Ybh]cbž`fYa]bX]b[`h\Ya i gh`\ck`Wf]h]WU``Z]fY`gUZYhm`]gž`YgdYW]U``m`]b`\ci gY\c`Xg`k]h\ mci b[`W\]`XfYb"

=hg`U`gc`WcbWYfb]b[`h\Uh'a Ubm`W\]`XfYb`a Um`ghfi [[`Y`hc`k U_Y`i d

I bXYfghUbX]b['7\]`XfYb g'6Y\Uj]cf']b':]fY 9a Yf[YbW]Yg

#\g`k cfh\`bch]b[`h\Uh'W\]`XfYb`cZhYb`fYUWh`i bdfYX]WhUV`m`]b
Ya Yf[YbWm`g]hi Uh]cbg"`FYgYUfW\`Zfca `BUh]cbk]XY`7\]`XfYb g
<cgd]hU``]bX]WUhYg`h\Uh`_]Xg`WUb`VYWca Y`Zf][\hYbYX`UbX
WcbZi gYX`Xi f]b[`U`\ci gY`Z]fYž`cZhYb`bch`Zi``m`[fUgd]b[`\ck `hc
Yj UW'UhY"`#b`ZUWhž`cbWY`U`Z]fY`U`Ufa `gci bXgž`h\YfY g`hmd]WU``m`f gh
hk c`a]bi hYg`hc`YgWUdY`i b\Ufa YX/U`dfYW]ci g``]hh`Y`k]bXck ``</pre>

- fYUWX 'h\Ya "
 BYj Yf'U``ck 'WX]`XfYb 'hc'd`Um'k]h\'Z]fY!ghUfh]b['hcc`g"
- UbX`\YUhYfg]XYU``mž'Uh``YUgh'h\fYY'ZYYh'Uk Um"
 @cW_`i d``][\hYfg'UbX`a UhWXYg'k \YfY'WX]`XfYb'WUbbch
- ?YYd 'WX]`XfYb 'U'gUZY 'X]ghUb WY 'Zfca '\ch']hYa g``]_Y 'ghcj Yg

: cf'WUfY[]j Yfgž'WfYUh]b['U'Wca dfY\Ybg]j Y'Z]fY'YgWUdY'd`Ub']g'Ub YggYbh]U``dUfh'cZ'\ca Y'gUZYhm"'Gi W\'U'd`Ub'g\ci `X']bWi XY Ugg]ghUbWY'Zcf'mci b['W\]`XfYb'i bUV`Y'hc'YI]h'cb'h\Y]f'ck b'UbX XYg][bUhY'hk c'YI]h'fci hYg'Zfca 'YUW\'fcca 1'gh']b'WUgY'cbY VYWca Yg'V`cW_YX"'A cfYcj Yfž'YghUV`]g\]b['U'gUZY'a YYh]b['d`UWY ci hg]XY'h\Y'\ca Y'cZ'h\Y'Z]fY']g'Wfi W]U`"'9Xi WUhcfg'fYWca a YbX hYUW\]b['_]Xg'k \Uh'UWh]cbg'hc'hU_Y'i dcb'\YUf]b['U'ga c_Y'U`Ufa ž YgdYW]U``m'k \Yb'Ub'UXi `h']qb h'Ufci bX"

:]fY`GUZYhm`A YggU[]b[

H\]gʻ]bWJXYbhʻgYfj YgʻUgʻUʻghUf_ʻfYa]bXYfʻcZʻh\YʻdchYbhJU``\UnUfXg h\UhʻWUbʻUf]gYʻ]b`\ca Ygʻk]h\`W\]`XfYb"`5WWcfX]b[`hc`h\YʻI "G"`:]fY 5Xa]b]ghfUh]cbž'k \]`Yʻh\Yʻcj YfU``f]g_ʻcZʻW\]`XfYb`Xm]b[`]bʻUʻZ]fY \UgʻXYWfYUgYXʻg][b]ZJWUbh`m]bʻZUWhžʻVmʻUVci h`+\$i `Zcf`h\cgY U[YXʻ%(`UbXʻi bXYfʻg]bWYʻ&\$&\$ h\YʻdchYbh]U``Zcf`XUb[Yf`fYa U]bg Yj Yf!dfYgYbh"`H\Y`XYWfYUgY`]b`f]g_`]g``Uf[Y`m`Xi Yʻhc`]bWfYUgYX di V`]WZ]fY`YXi WUh]cb`UbX`dfYj Ybh]cb`]b]hJUh]j YgʻgdYUf\YUXYX`Vm Z[fY`XYdUfha YbhqʻUWfcqqʻh\YʻbUh]cb"

6Ygi WXYb'G]Y'i bg'Ui Z'a Y]b!k]Yb"bYh

8 Y hU]`g	
Cfh	; fYmbc`Xg`5jYbiYž`Gdf]b[<]``ž: `cf]XUžIG5
EiY``Yb	● k k k "UVWUWh]cbbYk g"Wca
	• k k k "i gZU"ZYa U"[cj
	• k k k "bUh]cbk]XYWX]`XfYbg"cf[

Zcf[·]VY]b[[·]dfYdUfYX"

5gʻh\]gʻfYWYbh'YjYbh']bʻGdf]b[`<]```\][\`][\hgžʻh\Y`]a dcfhUbWYʻcZ dfcUWh]jYʻZ]fYʻgUZYhm'WUbbch'VYʻcjYfghUhYX"`DUfYbhgʻUbX WUfY[]jYfgʻa i gh'bch'cb`m'Yei]dʻh\Y]f`\caYgʻk]h\ʻgUZYhm a YUgi fYgʻVi h'U`gcʻUfa `h\Y]f``]hh`YʻcbYgʻk]h\`h\Y`_bck`YX[Y`UbX g_]``gʻhc`fYgdcbX`Uddfcdf]UhY`mʻg\ci`X`X]gUghYf`ghf]_Y"`5ZhYf`U``ž k \Yb`]h'WcaYgʻhc`Z]fY`gUZYhmž'h\YfY`fYU``m`]gʻgcaYh\]b[`hc`VY`gU]X

]b`WUgY`h\Y]f`W`ch\]b[`WUhW\Yg`Z]fY"

- Ybgi f]b['h\Uh'U``'W\]`XfYb'i bXYfghUbX'h\Y'ghYdg'hc'hU_Y k \Yb'U'Z]fY'U`Ufa 'gci bXg"
 HYUW\]b['W\]`XfYb'h\Y'GHC Dž'8 FC Dž'UbX'FC @@'hYW\b]ei Y
- CINGJXY YUWA GYYOJOL UTYUZUDX NYGNJOL NYA A CDN mm Ybgi fY'h\YmfY'cdYfUh]cbU`"
 DfUWh]W]b['Z]fY'YgWUdY'd`Ubg'Uh'`YUgh'hk]WY'U'mYUfž
- ■bghU``]b['ga c_Y'U`Ufa g`cb'Yj Yfm``Yj Y``cZ'h\Y'\ca Y'UbX ci hq]XY'YUW\'q`YYd]b['UfYUž'UbX'hYgh]b['h\Ya 'a cbh\`m`hc

GcaY'YZZYWh]jY'aYh\cXg'Zcf'Z]fY'dfYjYbh]cb']bWiXY.

Vifb]b[`\caY`hc`fYhf]YjY`jU`iUV`Yg"

]b`h\Y`YjYbh`cZ`U`Z]fYž`k]h\`cjYf`\U`Z`cZ`h\cgY`ibXYf`Z]jY`k\c`X]Y]b`\cigY`Z]fYg`VY]b[`Ug`YYd`Uh`h\Y`h]aY"`=b`U`dUb]Wž`W\]`XfYb`aUm \]XY`]b`d`UWYg`h\Ym`h\]b_`UfY`gUZYž`giW\`Ug`ibXYf`VYXg`cf`]b WcgYhg"`5XX]h]cbU``mž`c`XYf`W\]`XfYb`WUb`U`gc`aU_Y`eiYgh]cbUV`Y XYW]g]cbg`Xif]b[`giW\`Wf]gYgž`dcgg]V`m`hfm]b[`hc`fY!YbhYf`U