



## ARTS3360

D\]`cgc d\m7 Udghc bY. '9l Ua ]b]b[ 'D]j cH U`HYl hg

HYfa `H\ fYY`##`&\$&\$



7ci fgY'8YHJ`g

7fYX]hDc]bHg`\*`

Gi a a UfmicZ\hY'7ci fgY

h\Y'WUdgrcbYz'mci`k`j`Wcbgc`XUH'`mci`f`[`fUgd`cZ\hY`X]gWd`]bY`cZd\]cgcd\mVmYI`Ua`]b]b[`'U`d]`cHU`  
hYI`h]b`hY`'\]gtrfmcZd\]cgcd\mihUhfUk`Y][` \g`]b`cb`hY`fY`U]cb`VYtk`YYb`hY`tk`c`a`U]b`ghfYUa`g`cZ\hY`  
X]gWd`]bY`fa`]bX`#a`YhUd\ng]Wg`#d]ghYa`c`c`[`m]UbX`j`U`i`Y`h`Yc`fnt`/UbX`fV`E`Ug`VYYb`Vfc`UX`m]bZi`YbhU`i`dcb`  
WcbhYa`dcfUfmid\]cgcd\]WU`XYVUH`g`UbX`dfUW]W`g`"H\Y`gY`YWYX`hYI`hia`Umj`UfmZ`ca`gYa`YghY`f`tc`  
gYa`YghY`fz`Vi`higca`Y`fYdfYgYbhU]j`Y`YI`Ua`d`Yg`k`ci`X`]bW]`XY`Gd]bcnU`g`7fZ[`Uež`<`i`a`Y`g`F`dMS`f`e`Wa`X`  
: `g\_`S` `@SfgdVž?`UbHg`5`df[cgWa`XBgd`WD`W`Sea` `H\Y`gY`YWYX`hYI`hk`j`VY`YI`Ua`]bYX`k`]h`fYgd`Y`W]h`c`.]hg`  
\]gtrf]WU`WcbhYI`h`]hg`]bhY`[`f]m]Ug`U`i`b]Z]YX`UbX`gm]ghYa`Uh]Wk`cf`/\_`hY`]bXYdYbXYbhdc`k`Yf`cZ]hg`Uf[`i`a`Ybhg`/  
hY`]a`d`]WU]h`cbg`cZ\hY`gY`Uf[`i`a`Ybhg`Z`f`c`h`Y`f`UfY`Ug`cZ\i`a`Ub]gh]W]bei`]fm`UbX`hY`YbXi`f]b[`]bZi`YbW`cZ`  
hY`hYI`hcj`Yf`WcbhYa`dcfUfmXYVUH`g`UbX`d\]cgcd\]WU`dfUW]W`"H\Y`dfUW]WU`UddfYbh]W`g\]d`cZ\hY`  
gi`V`Y`W]h`k`j`VY`XYj`Y`cdYX`Vm]bhfcXi`W]b[`gh`XYbhg`tc`hY`j`Uf]Y`m`c`Z`fY`gY`UfW`dfUW]W`g`cZ\hY`X]gWd`]bY`UbX`  
YbWci`fU[`]b[`gh`XYbhg`tc`fYZYW]i`dcb`h`cgY`dfUW]W`g`]b`hY`XYj`Y`cda`YbhicZU`gi`ghU]bYX`UbX`]bhY`[`fUH`X`  
fYgYUfW`dfc`Y`W]h`Mci`k`j`fYZ]bY`mci`f`g\_]`g`Z`f`Z`W`gYX`UbU`m]Wk`f]h]b[`h`U`hk`j`gYfj`Y`mci`]b`U`f`Ub[`Y`cZ`  
Z`h`i`fY`WU`fY`f`dU`h`g`z`V`ch`U`W`X`Y`a`]W`UbX`bcbl`U`W`X`Y`a`]W`

7ci fgY`@YUfb]b[`Ci`hW`a`Yg

%`9I`d`U]b`hY`W`b`h`f`U`X`c`W`f]bYg`cZ\hY`gci`fW`hYI`hZ`f`hY`Wci`fgY`  
&`=>Ybh]Zmid\]cgcd\]WU`Uf[`i`a`Ybhg`f]gc`Uh]b[`dfYa`]gYgž`]bZYfYbW]gž`UbX`WcbW]`g]cbE`]b`hY`gci`fW`  
hYI`hž`UbX`Yj`U`i`UH`hY]f`gci`bXbYgg`  
'`" `hY`fd`fY`h`hY`W`c`fY`WU]a`g`cZ\hY`gci`fW`hYI`hž`UbX`UggYgg`hY]f`VYUf]b[`cb`c`h`Y`f`UfY`Ug`cZd\]cgcd\m`  
UbX`\i`a`Ub]gh]W]bei`]fm`  
(` `8YVUH`hY`]bhY`fd`fY`h]cb`cZ\hY`gci`fW`hYI`hž`UbX`UddfU]gY`Wc`a`dY]h]b[`]bhY`fd`fY`h]cbg`

# 5ggYgga Ybh

## 5ggYgga YbhHUg\_g`

5ggYgga YbhHUg_	K Y][ \h	8i Y'8UH	Gh XYbh@YUfb]b[ Ci hWta Yg'5ggYggYX
Gh XmDUfthYf'8]gW gg]cb : cfi a 'Dcghg`	%\$i	Bch5dd`]WUV`Y	%&Z ž( ž)
7f]h]WU`F YUX]b[ '9I YfW]gY`	' \$i	\$- #/\$#&\$&\$'%%\$\$'5A	%&Z ž( ž)
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## 5ggYgga Ybh8YHU]`g

5ggYgga Ybh%`Gh XmDUfthYf'8]gW gg]cb : cfi a 'Dcghg`

GhUfhXUH. `Bch5dd`]WUV`Y

8YHU]`g.

Gh XYbthg`UfY`hc`a`YYhk`]h`U`gh`XmdUfthYf`Zj`Y`h`a`Yg`c`j`Yf`h`Y`W`i`fg`Y`c`Z`h`Y`h`fa``hc`X]gW`gg`h`Y`gci`fW`h`I`h`d`f`c`f`hc`ci`f`U`j`]b[`X]gW`ggYX`]hUg`U`WUggž`UbX`k`f]h`U`g`c`f`h`d`c`g`h`f`\$`hc`+`k`c`f`X`g`k`Z`c`f`h`Y`X]gW`gg]cb`Z`c`f`i`a`"

:`c`f`Y`U`W`X]gW`gg]cb`Z`c`f`i`a`d`c`g`h`Z`c`h`gh`X`m`d`U`f`h`Y`f`g`f`Y`W`j`Y`U`a`U`f`\_`f`Y`U`W`d`c`g`h`c`i`h`c`Z`&`l`":`Y`Y`X`V`U`W`\_`j`]U`[`Y`b`Y`f`U`X]gW`gg]cb`U`b`X`f`Y`g`d`c`b`g`Y`g`c`b`h`Y`X]gW`gg]cb`Z`c`f`i`a`" `b`X]`j`]X`i`U`Z`Y`X`V`U`W`\_`U`j`U]U`V`Y`i`d`c`b`f`Y`e`i`Y`g`h`

## 5ggYgga Ybh&`7f]h]WU`F YUX]b[ '9I YfW]gY

GhUfhXUH. `

8YHU]`g.

%&\$\$`k`c`f`X`Y`gg`Umž`W]h]W`m`Ub`U`mg]b[`U`b`U`f`[`i`a`Y`bh]b`h`Y`gci`fW`h`I`h`d`f`c`f`hc`ci`f`U`j`]b[`X]gW`ggYX`]hUg`U`WUggž`X`f`U`k`]b[`c`b`k`U`h`g`h`X`Y`b`h`g`U`j`Y`U`f`b`Y`X`g`c`Z`U`f`U`V`c`i`h`h`Y`h`I`h`

:`Y`Y`X`V`U`W`\_`j`]U`]b`X]`j`]X`i`U`W`c`a`a`Y`b`h`g`U`b`X`U`a`U`f`\_`"

Hi`fb]h]b`g`Y`h]b[`H`g]U`gg][`ba`Y`bh]g`gi`Va`]h]X`h`f`ci`[`H`i`fb]h]b`U`b`X`gh`X`Y`b`h`g`X`c`b`c`h`g`Y`Y`Hi`fb]h]b`g]a`]U`f]h`m`i`f`d`c`f`g`"

## 5ggYgga Ybh' . : ]bU`9ggUm

GhUfhXUH. `

8YHU]`g.

'`\$\$\$`k`c`f`X`g`5`Z`W`g`Y`X`f`Y`g`Y`U`f`W`Y`gg`U`m`c`b`U`h`c`d]W`c`Z`h`Y`gh`X`Y`b`h`g`W`c`c`g]b[`ž`j`Y`h]X`V`m`h`Y`]b`g`h`i`W`c`f`ž`

UXXfYgg]b[ 'Ub']bHfdFYHj Y'di nn'Y']b'kY'gci fW'kI hUbX'XYa cbghfU]b[ '\_bck`YX[ Y'cZ]hg'fY`Yj UbW'hc  
W'cbHYa dcfUfmXYVUH'g"Ghi XYbHg'k ]`U'gc'dfYgYbhkY'YggUm]b'U'k cf\_g\cd'UhihY'YbX'cZkY'h'fa "

: YXXVUW\_j ]U'k f]H'Yb'W'ca a YbHg'UbX'U'a Uf\_"

Hi fb]H]b'gYH]b[ . 'H\]g'Ugg][ ba Ybh]g'gi Va ]H'X'h'fci [ \ 'Hi fb]H]b'UbX'ghi XYbHg'Xc'bcHgYY'Hi fb]H]b  
g]a ]Uf]mifYdcfHg"

5 HbXUbW F Yei ]fYa Ybhg

D`YUgY`bcH`hUh`YWh`fY`fYw`fX]b[ g`UfY`bchUj`U]UV`Y`Zcf`h]g`W`i`fgY`"Gh`XYbhg`UfY`ghfcb[ `mYbW`i`fU[`YX`hc`Uhh`bX`U`WUggYg`UbX`W`bH`UWh`h`Y`7`ci`fgY`5`i`h`cf]mhc`a`U`\_`Y`U`h`f`b`U`h`j`Y`UffUb[`Ya`Ybhg`Zcf`WUggYg`a`]ggYX"

7 ci fgY`GW`YXi` `Y

[J \]yk`WUgg`h`a`YhUV`Y](#)

H]a`YhUV`Y`

8UH	HmdY	7cbhYbh
K`YY`_%`%(`GYdhYa`VYf! %`GYdhYa`VYf	GYa`]bUf	K`YXbYgXUm`  b]fcXi`W]cb`Dc`fYUX]b[`Q`  .
	GYa`]bUf	:`f]XUm`  Hcd]W`5`f]ghchY.`h`Y`ghf`W]`fY`cZ`i`a`Ub`UW]cbz` `Udd]bYggz`UbX`h`Y`i`a`Ub`Z`bW]cb`  F`YUX]b[`. `@]Ua`_`SUZWS` `7fZ[Ue`=%`+`
K`YY`_&.`&%GYdhYa`VYf! &)`GYdhYa`VYf	GYa`]bUf	K`YXbYgXUm`  Hcd]W`A`YbW]`g.`<`i`a`Ub`bUh`fY`UbX`h`Y`YUfh`h`Uh` W]bbchVYUf`hc`gYY`gi`ZYf]b[`  F`YUX]b[`. `?`W`U]ge`&5`*`z`+`/'`5)
	GYa`]bUf	:`f]XUm`  Hcd]W`5`f]ghchY.`<`Udd]bYggz`j`]fh`Yz`UbX`c`h`Yf[`ccXg`  F`YUX]b[`. `@7`=`,-%` `
K`YY`_` `&.`GYdhYa`VYf! &`C`Wc`VYf	GYa`]bUf	K`YXbYgXUm`  Hcd]W`A`YbW]`g.`K` `UhWc`a`Yg`bUh`fU`mhc` `i`a`Ub]m`  F`YUX]b[`. `?`W`U]ge`*`5`*`z`+`
	GYa`]bUf	:`f]XUm`  Hcd]W`5`f]ghchY.`<`Udd]bYggz`j`]fh`Yz`UbX` Wc`bhYa`d`Uh]cb`  F`YUX]b[`. `@7`L`"*`-`,
K`YY`_`(`)`C`Wc`VYf!`-` C`Wc`VYf	GYa`]bUf	K`YXbYgXUm`  Hcd]W`A`YbW]`g.`@cg]b[ `]h[ `Yh]b[ `h`Y`df]cf]h]Yg`f][ `h`

F YUX]b[ . ? W U[ge '5 ; !%\$





		YI HfbU` F YUX]b[ . '9I WUj UHfX`hYI hg`Zca ; i cX]Ub
K YY_`%\$.`%*`Bcj Ya VYf! &\$`Bcj Ya VYf	GYa ]bUf	K YXbYgXUm` Hcd]W`5f]ghchY.`GY`Z`c] Y F YUX]b[ . '@7 𠄎
	GYa ]bUf	: f]XUm F Yj ]Yk `Qc`bYk `fYUX]b[ Q

F Ygci fWg

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5f]gthYz@[Ua\_ SUZWS` 7fZ[Ue" HfUbg`UHYX`VmHYfYbW`fk ]b"< UW\_Ym`Qj U]UV`Y`Uhl`BGK`Vcc\_gthfYO

? W U[ge" HfUbg`UHYX`Vm`fYbY`6`cca ""7c`i`a`V]U`l`b]j`Yfg]mDfYgg"Qj U]UV`Y`Uhl`BGK`Vcc\_gthfYO

C hYf`fYei`]fYX`fYUX]b[ g`Uj U]UV`Y`h`fci`[ \`@Y[ Ubhc`!!`cc`\_`cb`A`ccX`Y`Zc`f`h`Y`"]b`\_`hc`@Y[ Ubhc"

F YWca a YbXYX`F Ygci fWg

GhUbZcfx`9bWmWcdYX]U`cZD\`]cgcd\mYbh]fYg.

5f]gthY. [\`hfdg`##d`Uhc"ghUbZcfx"YXi`#`bhf\]Yg#Uf\]gthY#](#)

5f]gthYfj`Yh]Wj. [\`hfdg`##d`Uhc"ghUbZcfx"YXi`#`bhf\]Yg#Uf\]gthY!Yh\]Wj#](#)

A YbWj`g. [\`hfdg`##d`Uhc"ghUbZcfx"YXi`#`bhf\]Yg#a`YbWj`g#](#)

7ci fgY`9j U`i`Uh]cb`UbX`8Yj`Y`cda`Ybh

D`YUgY`Wca`Y`hU`\_`hc`h`Y`W`e`i`fgY`W`e`b`j`Ybcf`UVci`h`Ubm]ggi`Yg`\Uj`]b[`\_`hc`Xc`k`]h`\_`W`e`i`fgY`UXa`]b]ghfUhc`b`z`UbX`VY`gi`fY`hc`Z`\_`ci`h`m`e`i`f`A`m`9l`dYf]YbW`\_`gi`fj`YmUh`h`Y`YbX`!!`U`\_`Z`Y`X`V`U`W`\_`]g`]b]ghf`i`a`Yb`hU`\_`hc`X`Y`j`Y`c`d`]b[`\_`UbX`]a`d`f`c`]`b[`\_`h`Y`W`e`i`fgY"

Gi Va ]gg]cb 'cZ5ggYgga YbhiHUg\_g

Hi fb]h]b 'Gi Va ]gg]cb

Ʒmci 'YbWci bHYf'U'dfcV'Ya 'k \Yb'UH'Ya dh]b[ 'hc'gi Va ]hmc i f'Ugg][ ba YbhiH'fci [ \ 'Hi fb]h]bž'd'YUgY  
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'-', ) " ' ' %cf'Ya U] 'H'Ya 'cb'YI HYfbU'HY'fgi ddcfh4 i bgk "YXi "Ui "'Gi ddcfh  
\ci fg'UfY', .\$\$Ua '—%\$.\$\$da 'cb'k YY\_XUmg'UbX'-. \$\$Ua '—) .\$\$da 'cb'k YY\_YbXg'fI \*) 'XUmg'U'mYUfI" Ʒmci  
UfY'i bUV'Y'hc'gi Va ]hmc i f'Ugg][ ba YbhiXi Y'hc'U'Zi 'hk ]H'Hi fb]h]b'mci 'a UmUdd'm'Zc'f'Ub'YI HYbg]cbž'Vi hmc i  
a i ghfYHU]b'mci f'h]W\_Yhbi a VYf'Z'ca '9I HYfbU'Gi ddcfhfU'cb[ 'k ]H'UbmcH'Yf'fY'Yj UbhXcW a YbHgE'hc  
]bWi XY'Ug'Yj ]XYbVW'hc'gi ddcfhmc i f'YI HYbg]cb'Udd'jW]h]cb" Ʒmci 'Ya U] '9I HYfbU'Gi ddcfhmc i 'k ]  
Ui 'ca UH]WU'm'fYW]j Y'U'h]W\_Yhbi a VYfž'Vi h]Zmci 'HY'Yd\cbY'mci 'k ]'b'Y'X'hc'gd'Y'W]WU'mUg\_ 'Zc'f'cbY"  
Hi fb]h]b 'U'gc'dfcj ]XYg'i dXUH'g'cb'H'Y]f'gmgh'Ya 'ghU'hi g'cb'Hk ]H'Yf"

; YbYfU'mž'UggYgga YbhiHUg\_g'a i ghVY'gi Va ]H'Y'X'Y'Y'W'f'cb]WU'mj ]U'Y]H'Y'f'Hi fb]h]b'cf'U'A ccX'Y  
Ugg][ ba YbH' 'b]bg]H'UbVW'g'k \YfY'H'g ]g'bc]hd'cgg]V'Yž]hk ]'VY'gh'UH'X'cb'mci f'Wci fgY'g'A ccX'Y'g]H'k ]H  
U'HY'fbUH] Y'gi Va ]gg]cb 'XYHU]g"

: cf]bZ'fa UH]cb'cb'\ck 'hc'gi Va ]hUgg][ ba YbHg'cb]bY j ]U'A ccX'Y. \H'hdg. #gh XYbH'i bgk "YXi "Ui #ck!  
gi Va ]hUgg][ ba YbH'a ccX'Y

## 5 WUXYa ]W< cbYgmiUbX`D`U[ ]Uf]ga

D`U[ ]Uf]ga `]g`i`g]b[ `h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[ `h`Y`a` `U`g`m`c`i`f`c`k`b`" `#`W`U`b`h`U`\_`Y`a` `U`b`m`  
Z`c`f`a`g`Z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[ `h`c` `U`W`W`Y`X`Y`b`h`U` `m`i`W`c`d`m]b[ `Z`c`a` `U`g`c`i`f`W` `k` ]h`c`i`h`U`W`\_`b`c`k` `Y`X[ `Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[ ]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k` ]b[ `W`U`h`Y`[`c`f`]Y`g.

- i bXYfghUbx'mci f'f][ \hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[ ]Uf]ga ž'Wc'dmf][ \hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5W'W'dhUV'Y'I gY'cZ I BGK '⇒H'F'Ygci f'W'g'Dc`]W'h
- VY'Uk UfY'cZ'Y'ghUbxUfXg'cZVY\Uj ]ci f'YI dY'W'X'cZYj Yfmcby']b'h'Y'I BGK 'W'a a i b]m
- 'cW'W'h'gYfj ]W'g'UbX' ]bZ'fa U]cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZ'Y'gY'UfY'Ug'k ]''VY'ZJa ]]Uf'hc'mci ž'c'h'Y'fg'k ]''VY'bYk "'; U]b]b[ 'U'gc`]X'i bXYfghUbx]b[ 'cZU''h'Y fY'UH'X'UgdY'W'g'cZ9@-G9'k ]''\Y'd'mci 'a U\_Y'h'Y'a cgh'cZ'mci f'gh X]Yg'Uhl BGK ""

[\h'hd.##gi V'Y'W'f'i \]X'Y'g"'\]VfUfm'i bgk "Y'X'i "U'i #' \]g'Y'#J'V'ci h' \]g'Y](#)

