

**Dghqtg**<" Lwfig"Cipkgu|mc"Mnqpqykgemc/Oknctv"

Tgikuvt {<" Pcktqdk"

Tgikuvtct<" Cdgpc"Mycm{g/Dgtmq"

"

,,

Eqwpugn"hqt"vjg"Crrnkecpv<""

Rcwn"Oqtequ"
Pqwt"Cwfk"

"

Eqwpugn"hqt"vjg"Tgurqpfgpv<""
Ocvvjkcu"Uejwuvgt."CCUICNFIQJT"

Okt{qwpi"Cp."CCUlCNFlQJT"

Kpvtqfwevkqp"

30" Vjg" Crrnkecpv" ku" c" hqt o gt" Cuuqekcvg" Nkckuqp" Qhhkegt" cv" vjg" Wpkvgf" Pcvkqpu" Kpvgtk o "Hqteg"kp"Ngdcpqp"\*õWPKHKNö+0""

 $\begin{tabular}{ll} 40" & Kp" jku" crrnkecvkqp" hkng f" qp" 42" Lwpg" 4239." jg" eqpvguvu" vjg" Wpfgt/Ugetgvct {/ I gpgtcn" hqt" Ocpc i g o gpv<math>\emptyset$ u"\* $\delta$ WU I 1 F O  $\delta$ +" fgekukqp" vq"k o rqug" qp" j k o "vjg" fkuekrnkpct {" o gcuwtgu"qh"c"hkpg"qh"qpg/o qpv j "qh" j ku"pgv"dcug"ucnct {"cpf"ugrctcvkqp"htq o "ugtxkeg" y kv j" eq o rgpucvkqp"kp"nkgw"qh"pqvkeg"cpf" y kv j qwv"vgt o kpcvkqp"kpfg o pkv {."kp"ceeqtfcpeg" y kv j" uvchh" twngu" 3204\*c+\*x+" cpf" \*xkkk+" "" "

 $\label{eq:continuous} 50" Vjg"Tgurqpfgpv"hkngf"c"tgrn{"vq"vjg"crrnkecvkqp"qp"46"Lwn{"42390"}}$ 

 $\label{eq:continuous} \begin{tabular}{ll} 60" & Vjg"Vtkdwpcn"jgctf"vjg"ecug"htqo" 39/43"Lwpg"423;0"Fwtkpi"vjg"jgctkpiu."qtcn" vguvkoqp{"ycu"tgegkxgf"htqo<"} \end{tabular}$ 

c0" Vjg"Crrnkecpv="

d0" Vjg"Eqornckpcpv="

gf S cu 23C O

"

"

hqt" kpvgttqicvkqp0<sup>53</sup>" Vjg" Eqornckpcpv" fguetkdgu" vjcv" qpg" fc{" ujg" hgnv" crrtgekcvgf." cpqvjgt" fc { "fg o gcpgf0" Dwv" ujg "y cu" cnuq "gcigt" vq "k o rtqxg "jgt" rgtuqpcnkv { "cpf" umknnu" cpf"ucy"yqtmkpi"ykvj"vjg"Crrnkecpv"cu"cp"qrrqtvwpkv{"vq"rtqitguu"cpf"jcf"jqrgu"hqt" ugewtkpi"c"rqukvkqp"kp"vjg"tguvtwevwtgf"NUW0"Ujg"tgrgcvgfn{"cumgf"htqo"vjg"Crrnkecpv" y jgvjgt"jgt"eqpvtcev" y kvj"WPKHKN" y qwnf"dg"gzvgpfgf"cpf"vjg"Crrnkecpv"vqnf"jgt"vjcv" cfokvvgf"vjcv"vjg"Crrnkecpv"jcf"uqog"rqukvkxg"cvvtkdwvgu"cpf"ycu"jcrr{"cdqwv"cpqvjgt" Eq o rnckpcpv" y cu"kp"v j g"rtqeguu"qh" fkxqtekp i "j gt" j wudcpf0"V j ku"hcev" y cu"mpq y p"ctqwpf" vjg"Ecor." ockpn{"htqo"vjg"Eqornckpcpv"jgtugnh056"Qpg"vkog"vjg"Crrnkecpv"jgctf"vjg" Eqornckpcpvøu" vgngrjqpg" eqpxgtucvkqp" ykvj" vjg" cdqwv" vjg" rtqeguu" cpf" eq o o gpvg f"vjcv"ujg"ujqwnf"pqv" fkxqteg"ukpeg" \textit{"Ujg"vqnf"jk o "cdqwv"jgt"} jwudcpf"nqukpi" o qpg{."vjcv"jg"uvqrrgf"vcmkpi"ujqygtu"cpf"ycu"cnyc{u"fktv{."cpf"vjcv"  $ujg"jcf"vq"tgrc{"jgt"jwudcpføu"fgdv0^{57"}$ Y jgtgcu" vjg" "E 0 ckcco Eq o rnckpcpv" fgpkgu"tckukp i "vjku"uwdlgev. "ujg" o gpvkq" o Cwuq



 $\label{eq:mellipse} Mehctepk"kp"htqpv"qh"vjg"Eqornekpepv0^{62"}$ 

# $Vjg''fc\{''qh''vjg''kpekfgpv''''$

 $3;0" Kv"ku"wpfkurwvgf"vjcv"kp"vjg"oqtpkpi"qh";"Hgdtwct{"4237."ctqwpf":052"6";022"c0o0."vjg"Eqornckpcpv"nghv"vjg"qhhkeg"cpf"ygpv"ykvj"Ot0"Mchctcpk"vq"gzejcpig"ugtxkeg"rjqpgu"cv"vjg"KEVU0"Cu"kv"vwtpgf"$ 

 $\label{eq:condition} Ceeqtfkpii"vq"vjg"Eqornckpcpv."chvgt"Ot0"Mchctcpkøu"fgrctvwtg."cv"ctqwpf"3304:" \\ c0o0"qp";"Hgdtwct{"4237."ujg"ycu"kp"vjg"qhhkeg"cv"jgt"fgum"yjgp"vjg"Crrnkecpv"ecnngf"jgt"vq"jku"qhhkeg"d{"wukpi"vjg"vgto"oFqmvqtcö0"Ujg"ycu"ygctkpi"c"dnwg"ujktv."uecth"cpf"ngcvjgt"rcpvu0"Vjg"Crrnkecpv"uckf"vjcv"jg"jgctf"htqo"uqogqpg"vjcv"ujg"nkmgf"vq"ygctngcvjgt"rcpvu0"Jg"nqqmgf"cv"jku"eqorwvgt"cpf"cumgf"jgt."õfq"{qw"mpqy"Tcpf{Aö"Ujg"uckf"{gu0"Jg"vjgp"fkf"pqv"hqnnqy"wr"qp"vjg"uwdlgev."dwv"vqnf"jgt"vjcv"ujg"ycu"nkxkpi"c"uvtguuhwn"nkhg0"Jg"cumgf"jgt"vq"rwv"jgt"jcpfu"fqyp0"Jg"vqqm"c"ngvvgt"qrgpgt"cpf"jgnf"kv"cdqxg"jgt"jcpf"ocfg"eqoogpvu"cdqwv"jgt"dgkpi"uvtguugf0"Ujg"oqxgf"qpg"qh"jgt"jcpfu"cpf"jg"uckf."õugg."ugg."vjcv"ujqyu"{qw"ctg"uvtguugfö"vjgp"jg"oqxgf"vq"vjg"qvjgt"jcpf"cpf"uckf."õvjku"qpg"ku"gxgp"yqtug."vjg"pgtxgu"ctg"fcocigfö0""$ 

 $450" \qquad J g" \ o \ qxgf" \ jgt"vq"v jg" eqwej" cpf" uckf" \ jg" \ y \ qwnf" u jqy" jgt" \ y jcv" jg" \ o \ gcpv" cdqwv" jgt" dgkp i "uvtguug f0" U jg" uckf" v jcv" kv" y cu" qmc {"cpf"v jcv" jg" u jqwnf" lwuv" vgnn" jgt" y jkej "fqevqt" vq" iq"vq0" Jg" vqnf" jgt" u jg" y cu" vqq" u jqtv. "uq" jg" ucv" jgt" qp" c" rknnqy0" Jg" rwv" jku" jcpfu" qp" jgt" u jqwnfgtu" htq o "dgjkpf" cpf" vqnf" jgt" vq" tgncz0" U jg" uckf" u jg" fkfpøv" hggn" qmc {0" Jg" cumgf" jgt" vjcw" u jg" jcf" uggp" jko" ikxkpi" o cuucigu" vq" Ot0" Mchctcpk" o cp{"vk o gu0" V jg" rtgxkqwu" ncpi wcig" cuukuvcpv" jcf" vqnf" jgt" vjcv" v jg" Crrnkecpv" wugf" vq" o cuucig" jgt" cpf" vjcv" jg" cnuq" o cuucigf" Ot0" Dgpfkpgnnk0"$ 

 $\label{thm:def:uding} 460" \qquad \mbox{$U$jg"$ y cu"pqv"eq o hqtvcdng" dwv"$ jg"uckf"kv"$ y cu"lwuv"nkmg"v$ jg" fqevqtøu"qhhkeg."uq"u$ jg" vtkgf"vq"dgnkgxg"kv"$ y cu0" Jg"twddgf" jgt"eqnnct"dqpgu"v$ jgp"$ y cnmgf"kp"htqpv"qh" jgt"cpf"uckf" vjcv"v$ jgtg"$ y cu" o wej "vgpukqp"cnqpi" jgt" o wuengu."v$ jcv"v$ jgtg"$ y gtg" o cp{"vjkpiu"ujg"eqwnf" fq"cpf"uw$ i$ iguvgf"uq$ o g"gzgtekugu0" Jg"v$ jgp"$ y cnmgf"dcem"dgjkpf" jgt"cpf"qhhgtgf"vq" rwv" o gfkekpg"*uvtkru"qh"vcrg+"qp" jgt0"Ujg"uckf"v$ jcv"ujg"$ y qwnf"vcmg"kv" jq$ o g"cpf"fq"kv" jgtugnh0" Jg"tcp" jku" jcpf"fqyp" jgt"dcem"vq" jgt"ujqwnfgt"dncfg"cpf"kpfkecvgf"$ y jgtg" jg"$ y qwnf" rwv" vjg"vcrg0" Jg"$ y gpv"vq" jgt" fqqt"cpf"nqemgf"kv"cpf"uckf"v$ jcv"ujg"ujqwnf"dg"eqohqtvcdng0"$ 

470"	$\label{eq:condition} Jg\text{"ec}og\text{"dcem"dg}jkpf\text{"}jgt\text{"cp}f\text{"uck}f.\text{"\~o}ngv\text{"}og\text{"}ocuucig\text{"}\{qw.\text{"enqug"}\{qwt\text{"}g\{gu\"o0\text{"U}jg\text{-}g\text{-}g\text{-}g\text{-}g\text{-}g\text{-}g\text{-}g\text{-}$	11
eqwnf" p	pqv" enqug" jgt" g{gu0" Jg" vjgp" uvctvgf" vq"	"
		"

cpf"ujg" y cu"cpu y gtkp i "kp"Gp i nkuj "uc {kp i "pq0"Ujg"vqn f" j k o "ujg" y cu"ngcxkp i "dwv" j g"uck f." õpq."K" y knn" i qö"cpf"nghv"vjg"qhhkeg0<sup>67</sup>"

 $480" \qquad \text{Kv"ku"wpfkurwvgf"vjcv"chvgt"nwpej"vjg"Eqornckpcpv"kphqtogf"vjcv"ujg"hgnv"wpygnn"} \\ cpf"ycu"pqv"rncppkpi"vq"eqog"vq"vjg"qhhkeg"vjg"pgzv"fc{0"Vjg"Crrnkecpv"uckf"vjcv"jg"ycu"pqv"eqokpi"gkvjgt0"}$ 

## Chvgt o cvj "qh"vjg"kpekfgpv"

 $490" Vjg"Eqornckpcpv"eqpvcevgf"Ot0"Vcmcej"qxgt"vjg"rjqpg"kp"vjg"chvgtpqqp"qp"vjg"\\ fc \{"qh"vjg"kpekfgpv"cpf"uckf"vjcv"vjg"Crrnkecpv"jcf"vqwejgf"jgt0"Cu"Ot0"Vcmcej"ycu"kp"$ 

 $cu"uwrgtxkuqt0^{68""}$ 

 $4:0" \qquad Qp"vjg"pgzv"fc \{"chvgt"vjg"kpekfgpv."32"Hgdtwct \{"4237."dqvj"vjg"Eqornckpcpv"cpf"vjg"Crrnkecpv"fkf"pqv"eqog"vq"yqtm0"Vjg"Crrnkecpv"ecmgf"vjg"Eqornckpcpv"cv"nwpej"vkog"vq"ejgem"yjgvjgt"ujg"jcf"eqog"vq"vjg"qhhkeg="vjgtg"ku"c"fkurwvg"yjgvjgt"ecmkpi"jgt"qp"vjku"qeecukqp"c"õuvwddqtpö."qt"õvqwijö." "yqocp"ycu"fkutgurgevhwn"qt"pqv."yjkej"vjg"Vtkdwpcn"fqgu"pqv"eqpukfgt"tgngxcpv0""Wpfkurwvgfn<math>\{."vjg"Crrnkecpv"cnuq"cumgf"vjcv"vjg"pgzv"fc\{"ujg"rc\{"cp"kpuvcnogpv"qh"jku"ect"nqcp0"Vjg"Eqornckpcpv"eqornkgf."cu"ujg"jcf"fqpg"uq"dghqtg"cpf"vjg"dcpm"ycu"qp"jgt"yc<math>\{0"Vjg"rc\{ogpv"ycu"ncvgt"tgkodwtugf"vjtqwij"vjktf"rctvkgu0^{69"""}$ 

 $4;0" Qp" 33" Hgdtwct \{"4237." vjg" Crrnkecpv" ycu" rtgrctkpi" jku" eqoogpvu" qp" vjg" tgqticpk | cvkqp" qh" vjg" NUW" tgswguvgf" qh" jko" d \{"Ot0" Dgpfkpgnnk0" Jg" ecnngf" qp" vjg" Eqornckpcpv"vq"rtkpv"vjg"qticpk itco" yjkng"jg" ycu"eqpxgtukpi" ykvj"Ot0"Mchctcpk0""Ujg" cumgf"cdqwv"gnk ikdknkv {"qh"ncpiwcig"cuukuvcpvu"hqt"vjg"pgyn {"etgcvgf"rquvu0"Vjg"Crrnkecpv" uvcvgf" vjcv" pqpg" qh" vjg" ncpiwcig" cuukuvcpvu" ygtg." kp" jku" qrkpkqp." uwkvcdng0" Vjg" Eqornckpcpv"nghv"jku"qhhkeg"xkukdn {"wrugv06:"Uqqp"vjgtgchvgt"ujg"uvgrrgf"qwv"vq"vjg"vqkngv" vq"ugetgvn {"ocmg"rjqpg"ecnnu"vq"Ot0"Vcmcej"cpf"Ou0"Kxgvke06;"$ 

 $520" \quad \text{Cu"eqphkt ogf"d} \{\text{"vjg"vguvk oqp} \{\text{"qh"Ou0"} [\text{qwuugh."vjg"Eqornckpcpv"vgngrjqpgf"} \text{vjg" qhhkeg" qh"vjg"} \text{Uvchh" Eqwpugnnqt" qp" } 33" \text{Hgdtwct} \{\text{"4237" cv" } 32067" \text{ c0 o 0" y cpvkpi" vq" uejgfwng"cp"crrqkpv ogpv"kp"tgncvkqp"vq"cp"kuuwg"ykvj"jgt"uwrgtxkuqt0"Ujg"fkf"pqv"urgekh {\text{"yjcv"vjg"kuuwg"y cu"cdqwv."dwv"ujg"y cu"kp"cp"g oqvkqpcn"uvcvg="vjg"vqpg"qh"jgt"xqkeg"y cu"fqyp."uq ogjqy"uvtguugf"qt"fgrtguugf0^72"Vjg"Eqornckpcpv"ogv"ykvj"Ou0"Kxgvke"cv"4022"r0o0"Vjgtg"y cu"cpqvjgt"oggvkpi"qp"35" Hgdtwct<math>\{0^{73}"Ou0"Kxgvke"eqphktou"vjcv"vjg"$ 

 $<sup>^{68\</sup>text{"}}\text{Ot0"}\text{Vcmcej@u"kpvgtxkgy."tgrn}\{.\text{"cppgz"4."rcig"473"cpf"jku"vguvkoqp}\{\text{"dghqtg"vjg"Vtkdwpcn"qp"3:"Lwpg"423:"}\}$ 

 $<sup>^{69\</sup>text{"Crrnkecpvou"kpvgtxkgy."tgrn} \{.\text{"cppgz"4."rcigu"392"cpf"498="Eqornckpcpvou"kpvgtxkgy."tgrn} \{.\text{"cppgz"4."rcig"4390"} \}$ 

 $<sup>^{6:&</sup>quot;}Ot0"Mchctcpkøu"kpvgtxkgy."tgrn{."cppgz"4."rcigu"45;"cpf"462="Eqornckpcpvøu"kpvgtxkgy."tgrn{."cppgz"4."rcigu"43"cpf"43:="Ot0"Mchctcpkøu"kpvgtxkgy."tgrn{."cppgz"4."rcigu"45;"cpf"4620"}$ 

<sup>6:&</sup>quot; Eq o rnckpcpvøu" kpvgtxkg y ." tgrn{ y. h · 3:3 ¬"3 gt" vguvk @qp{" dghqtg"¥j g" VtkdwppØl"y ? Ø ypqp39"Lwpg"423;0"

 $<sup>^{72}</sup>$ "Ou0" [qwuughøu"kpvgtxkgy."tgrn{."cz"U "reg"U "c"kp"jgt"v

<sup>73&</sup>quot;Ou0" [ qwuughøu"kpvgtxgy."tgrn{h

$$\begin{split} &Ecug''Pq0 \ensuremath{\mbox{\sc FV|PDK|4239|278"}} \\ &Lwfiogpv''Pq0 \ensuremath{\mbox{\sc WPFV|423;13:9"}} \end{split}$$

kphqt o cnn {0<sup>78</sup>"""

 $\begin{aligned} &Ecug"Pq\&"WPFV1PD\&142391278"\\ &Lwfiogpv"Pq\&"WPFV1423;13:9"\end{aligned}$ 

 $ogpvkqpgf"vjcv"NCH"kpvgnnkigpeg"jcf"vcmgp"jgt"vq"V\{tg"hqt"swguvkqpkpi0^{84} under the constant of the consta$ 

590"  $Ou0"Mkpugnnc"htqo"EFW"ycu"crrtqcejgf"d{"vjg"Eqornckpcpv"cpf"vjg{"jgnf"c"}}\\$ ugtkgu"qh" o ggvkpiu." y jgtg"vjg"Eq o rnckpcpv"gzrnckpgf"jqy"vjg"Crrnkecpvøu"dgjcxkqwt." cdqwv" y jkej "ujg" jcf" rtgxkqwun { "eq o rnckpgf." ewn o kpcvgf" kp" jk o "vqwejkpi" jgt" jcpf. "vjgp" 0" Kp" tgurqpug." Ou0" Mkpugnnc" vgnnkpi" jgt" vq" enqug" jgt" g{gu" | gzrnckpgf"jqy"vjg"kpvgtpcn"u{uvgo"qh"lwuvkeg"yqtmgf0"Ujg"pqvkegf"vjcv"vjg"Eqornckpcpv" y cu" xgt {" uvtguug f" cp f" eqpegtpg f" vj cv" pq" qpg" ugg" vj g o " o ggvkp i 0" Ceeqt fkp i " vq" Ou0"  $\label{lem:mkpugnnc.} Mkpugnnc."vjg"Eqornckpcpv"jcf"c"igpwkpg"hgct"hqt"jgt"uchgv{"cpf"vjcv"qh"jgt"hcokn{."jgt"}$ tgrwvcvkqp"cpf"hqt"jgt"lqd."cpf"vjg"tgcuqp"yj{"ujg"dtqwijv"vjg"kuuwg"vq"vjg"cvvgpvkqp"qh" vjg" Hqteg" Eqoocpfgt" ycu" vjg" hgct" vjcv" vjg" Crrnkecpv" ycu" iqkpi" vq" dg" ocfg" jgt" uwrgtxkuqt0" Ou0" Mkpugmc" mpg y "vjcv" vjgtg" y gtg" o cp { "kpvgtxgpvkqpu" kp" vjg" rtqeguu" qh" o cmkp i "c"hqt o cn"eq o rnckpv="kv" o c {"j cxg"dggp"vjg"NCH"ecnnkpi "vjg"Eq o rnckpcpv"cpf"jgt" jwudcpf"hqt" o ggvkpiu."vjg" Pcvkqpcn"Uvchh"Wpkqp"kpukuvkpi"qp" o gfkcvkqp"qt"kpvgtxgpvkqpu" htqo"Ot0"Dgpfkpgnnk0"Fwtkpi"vjg"EFW"rtqeguu."Ou0"Mkpugnnc"jgtugnh"tgegkxgf"c"yctpkpi" htqo"Ou0"Kxgvke."vjcv"vjg"Crrnkecpv"jcf"kpfkecvgf"vq"jgt"vjcv"jg"jcf"dggp"cyctg"vjcv"vjg"  $vyq"qh"vjgo"jcf"dggp"rwujkpi"vjg"Eqornckpcpv"vq"hqtocnk|g"jgt"ecug"cickpuv"jko0"^{85}"$ 

- $5:0" Kp"vjg"ncvgt"rgtkqf"vjg"Eqornckpcpv"cnuq"eqphkfgf"kp"Ou0"Gn/Fkm"cumkpi"cfxkeg" cu"vq"yjgvjgt"ujg"ujqwnf"hkng"c"eqornckpv0^{86"}$
- S;0" Rgtuqpu" ctqwpf" vjg" Crrnkecpv" cpf" vjg" Eqornckpcpv" ygtg" cuvqpkujgf" cv" vjg" kpekfgpv"ikxgp"kvu"ewnvwtcn"cpqocn{="vjg{"vjqwijv"vjg"cnngicvkqpu"ygtg"cu"jctf"vq"dgnkgxg" cu" vjg" uwrrqukvkqp" vjcv" vjg" Eqornckpcpv" yqwnf" jcxg" ocfg" vjgo" wr0<sup>87</sup>" Ou0" Kxgvke" eqpukfgtgf"vjcv" yjgp"c" yqocp"ku"xgkngf."cu" ycu"vjg"Eqornckpcpv."kv"ugpfu"c" oguucig" vjcv"ujg"cdkfgu"d{"tgnkikqwu"twngu."ujg" ycu"cuvqpkujgf"cv"vjg"vjqwijv"vjcv"vjg"Crrnkecpv" yqwnf"jcxg"etquugf"vjg"nkpg0"Ujg."jqygxgt."fkf"pqv"swguvkqp"vjcv"uqogvjkpi"jcrrgpgf"

 $<sup>^{84}</sup>$ " Ou<br/>0" Tcj cnøu "kpvgtxkg y. "tgrn { . "cppgz" 4. "rcig" 4790 "

 $<sup>^{85}</sup>$ " Ou<br/>0 "Mkpugnncøu "kpvgtxkg y ." tgrn { ."cppgz "4." rcig "48 ; 0 "

 $<sup>^{86&</sup>quot;}Ou0"Gn/Fkmou"vguvk\ o\ qp\{"dghqtg"vjg"Vtkdwpcn0"$ 

 $<sup>^{87&</sup>quot;}$  Ot0"Vcmcejøu"kpvgtxkg y ."rcig"46: "cpf"kp" j ku"vguvk o qp{"dghqtg"vjg"Vtkdwpcn="Ou0"Kxgvkeøu"kpvgtxkg y ."rcig"432."Ou0"Tcjcnøu"kpvgtxkg y ."rcigu"479"cpf"47:="Ou0"Jclløu"kpvgtxkg y ."rcig"4;4"cpf"kp"jgt'vguvk o qp{"dghqtg"vjg"Vtkdwpcn="Ou0"Gn/Fkmøu"vguvk o qp{"dghqtg"vjg"Vtkdwpcn0"

 $dgv\,y\,ggp"\,vj\,g\,o\,0^{88"}\,Wpvkn"\,vj\,g"\,gp\,f"\,qh"\,jg\,t"\,cuuk\,i\,p\,o\,gpv"\,k0g0."\,gp\,f"\,qh"\,Hgdtwct\,\{"\,4237."\,vj\,g"\,Eq\,o\,rnckpcpv"hqt\,o\,cnn\,\{"tg\,o\,ckpg\,f"kp"vj\,g"C\,r\,rnkecpv\emptysetu"qhhkeg."uj\,g"j\,q\,y\,gx\,gt."\,y\,cu"\,o\,ckpn\,\{"qp"\,c"ukem"ngcxg0""$ 

620" Kv"ku"wpfkurwvgf"vjcv"htqo"okf/Hgdtwct{"vjtqwij"dgikppkpi"qh"Crtkn"4237"vjgtg" ygtg"kpvgtxgpvkqpu"d{"NCH"Kpvgnnkigpeg"kp"vjg"eqphnkev0"Ceeqtfkpi"vq"vjg"Eqornckpcpv." ujg"ycu"crrtqcejgf"d{"vjg"NCH"qp"35"Hgdtwct{"cpf"Ot0"Mjc|cn"qh"vjg"NCH"eqpvcevgf" jgt"vq"oggv"ykvj"vjg"NCH"qp"39"Hgdtwct{0"Rtgugpv"cv"vjg"oggvkpi"ygtg"Ot0"Mjc|cn"cpf" Eqnqpgn"Eqpuvcpvkpg0"Eqnqpgn"Eqpuvcpvkpg"mgrv"vgnnkpi"jgt"vjcv"ujg"ujqwnf"pqv"tgrqtv0" Jgt"tgurqpug"ycu"vjcv"ujg"lwuv"ycpvgf"vq"oqxg"qhhkeg0"Cu"c"tguwnv."jqygxgt."qp"39"Hgdtwct{."ujg"vgngrjqpgf"vjg"Crrnkecpv"cpf"cumgf"vq"oggv"ykvj"jko"kp"vjg"qhhkeg0"Fwtkpi"vjgkt"eqpxgtucvkqp."vjg"Crrnkecpv"uvctvgf"vq"fkurnc{"tgurktcvqt{"rtqdngou"cpf"

 $Cpqvjgt"\ o\ ggvkpi"\ y\ cu"j\ gnf"kp"Octej"4237"kpxqnxkpi"vjg"Crrnkecpv."vjg"Eq\ o\ rnckpcpv\emptysetu"$   $j\ wudcpf"\ cpf"\ vyq"\ ugpkqt"\ NCH"\ Kpvgnnki\ gpeg"\ qhhkekcnu0"\ Cf\ o\ kvvg\ fn\{."\ vjg"\ Eq\ o\ rnckpcpv\emptysetu"$   $j\ wudcpf''\ y\ cu"tg\ swktg\ f"\ vq"\ o\ cmg"\ vjg"\ Eq\ o\ rnckpcpv"\ uwduvcpvkcvg"\ j\ gt"\ cnng\ i\ cvkqpu"\ qt"\ uvqr"$   $urtgc\ fkpi\ "vjg\ o\ 0^{94}"Vjg"ncuv"vk\ o\ g"vjg"Eq\ o\ rnckpcpv"\ y\ cu"eqpvcevg\ f"\ d\ \{"NCH"\ y\ cu"kp"Crtkn"\ 42370^{95}"$ 

Op" 49" Octej" 4237." vjg" Eqornckpcpv" ugpv" cp" gockn" vq" vjg" WPKHKN" Hqteg" Eqoocpfgt." Oclqt" I gpgtcn" Nwekcpq" Rqtvqncpq." eqr {kpi" Ou0" Mkpugnnc." cpf" I qtfqp" Y ctfng {"htqo" EFW." o cmkpi "cp"kphqtocn"eqornckpv"cickpuv"vjg"Crrnkecpv0"Ujg"cnngigf." LQWHJvUjcv"DgCrDkecpv"jcf"etgcvgf"c"jquvkng" y qtmkpi "gpxktqpogpv"cpf"vjcv."qp";" Hgdtwct {"4237."vjg"Crrnkecpv"jcf"kpukuvgf"qp" ikxkpi "jgt"c"ujqwnfgt" o cuucig"cpf"vjgp"

 $\label{eq:continuous} 650" Qp"42"Crtkn"cpf"33"Lwpg"4237."vjg"Crrnkecpv"hkngf"c"hqtocn"eqornckpv"cickpuv"vjg"Eqornckpcpv"vq"vjg"WPKHKNlHE"cpf"vq"Ot0"Yctfng{"cv"EFW0"Vjg"Crrnkecpv"cmgigf"vjcv"jg"hgnv"õdcfn{"cdwugf"cpf"wphcktn{"uwdlgevgf"vq"c"xgt{"wpvtwg"cpf"xgt{"korqnkvg."hcnug"cpf"u{uvgocvkecnn{"fgnkdgtcvg"wpuwduvcpvkcvgf"cnngicvkqp"ykvjqwv"cp{"hqtocn"qt"rtqhguukqpcn"tgcuqpu"yjkej"jcf"dggp"ektewncvkpi"ukpeg"*uke+"qxgt"5"oqpvjuö0^{97""}}$ 

 $6;0" D \{ \text{"ngvvgt"fcvgf"} 53" Octej" 4239. \text{"vjg"Cevkpi"CUIlQJTO" kphqtogf" vjg"Crrnkecpv" vjcv" vjg"WUIlFO" jcf" fgekfgf" vq"korqug"qp" jko" vjg" fkuekrnkpct {"ogcuwtgu"qh"c"hkpg"qh" qpg/oqpvj"qh" jku"pgv"dcug" ucnct {"cpf" ugrctcvkqp" htqo" ugtxkeg" ykvj" eqorgpucvkqp" kp" nkgw" qh" pqvkeg" cpf" ykvjqwv" vgtokpcvkqp" kpfgopkv {."kp" ceeqtfcpeg" ykvj" uvchh" twngu" 3204*c+*x+" cpf" *xkkk+0" }$ 

 $720" Qp"49"Crtkn"4239."vjg"WPKHKN"EFW"dtqwijv"vq"vjg"cvvgpvkqp"qh"QJTO"vjcv"WPKHKN"Ugewtkv{"jcf"tgegkxgf"c"tgrqtv"htqo"vjg"Eqornckpcpv"cpf"jgt"jwudcpf"vjcv."chvgt"ugrctcvkqp."vjg"Crrnkecpv"jcf"dggp"kpvkokfcvkpi"jgt"vq"ykvjftcy"jgt"eqornckpv"cpf"tgvtcev"jgt"uvcvgogpvu<math>0:8$ "Hqnnqykpi"vjg"eqoowpkecvkqp."d{"gockn"fcvgf"32"Oc{"4239"vjg"EFW"rtqxkfgf"ytkvvgp"uvcvgogpvu"htqo"vjg"Eqornckpcpv"cpf"jgt"jwudcpf0:9"

### Eqpukfgtcvkqpu"

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  - $c0" \qquad y \, j \, g v j \, g t" v j \, g"hcevu" qp" \, y \, j \, kej \, "v j \, g"ucpevkqp" ku" dcug f" \, j \, cxg" dggp" guvcdnku \, j \, g \, f=" \, log \,$
  - d0" y j gv j gt "f wg "r tqeguu "tk i j vu "y gtg "qdugtxg f 0"
  - e0" y j gv j gt "v j g " guvcdnku j g f " hcev

 $\label{thm:continuity:continuit$ 

 $Fwtkpi" ] kvu\_" rtqeguu" vjg" Fku rwvg" Vtkdwpcn" ku" pqv" eqpfwevkpi" c" ogtkv/dcugf" tgxkgy." dwv" c" lwfkekcn" tgxkgy0" Lwfkekcn" tgxkgy" ku" oqtg" eqpegtpgf" ykvj" gzcokpkpi" jqy" vjg" fgekukqp/ocmgt" tgcejgf" vjg" korwipgf" fgekukqp" cpf" pqv" vjg" ogtkvu" qh" vjg" fgekukqp" ocmgtøu" fgekukqp0" Vjku" rtqeguu" oc{"ikxg" cp" kortguukqp" vq" c" nc{" rgtuqp" vjcv" vjg" Vtkdwpcn" jcu" cevgf" cu" cp" crrgnncvg" cwvjqtkv{"qxgt" vjg" fgekukqp/ocmgtøu" cfokpkuvtcvkxg" fgekukqp0" Vjku" ku" c"okuwpfgtuvcpfkpi" qh" vjg" fgnkecvg" vcum" qh" eqpfwevkpi" c" lwfkekcn" tgxkgy" dgecwug" fwg" fghgtgpeg" ku" cnyc{u"ujqyp" vjg" fgekukqp/ocmgt." yjq" kp" vjku" ecug" ku" vjg" Ugetgvct{/Igpgtcn0;2"}$ 

 $\label{eq:power_power} Pqvykvjuvcpfkpi"vjg"chqtguckf."vjg"Vtkdwpcn"tgecnnu""vjg"lwfiogpv"d{"WPCV"kp"} OEDLJR. QPdp"Prtghgtgpeg"jcu"dggp"gzrtguugf"hqt"ocmkpi"fgvgtokpcvkqpu"qh"okueqpfwev"kp"c"jgctkpi."gurgekcnn{"kp"ecugu"tguwnvkpi"kp"vgtokpcvkqp0;3"Vjku"Vtkdwpcn"jcu"gctnkgt"pqvgf"egtvckp"u{uvgoke"cpf"egtvckp"rtcevkecn"ejcnngpigu"kp"jcxkpi"vjg"jgctkpi"cu"vjg"rtkpekrcn"vqqn"qh"hcev/hkpfkpi."kpenwfkpi"vjg"wphqtvwpcvg"dwv"kpguecrcdng"tgcnkv{"qh"c"nci"dgvyggp"vjg"kpekfgpvu"cpf"vjg"vkog"yjgp"vjg"ecugu"tgcej"vjg"Vtkdwpcn"cpf"vjg"hcev"vjcv"vjg"WPFV"jcu"pgkvjgt"uwdrqgpc"pqt"ucpevkqpkpi"rqygt"qxgt"pqp/gornq{ggu0"Cu"uwej."vjku"Vtkdwpcn"vcmgu"kv"vjcv"OEDLJR"QpPkHbPcp"cwvjqtkucvkqp"cpf"pqv"vjg"qdnkicvkqp"hqt"vjg"WPFV"vq"ectt{"qwv"c"tg/fgvgtokpcvkqp"cpf"vq"uggm"gxkfgpeg"wpfgt"egtvckp"ektewouvcpegu0"Vjg"wug'qh"vjku"cwvjqtk|cvkqp"ku"vq"dg"iwkfgf"d{"yjcv"ku"pgeguuct{"vq"fgvgtokpg"vjg"fhurwvgf"cpf"fqwdvhwn"ocvgtkcn"hcevu"kp"xkgy"qh"tgcfkn{"cxckncdng"gxkfgpeg."ykvjqwv."jqygxgt."rncekpi"vjg"WPFV"okp"vjg"ujqguö"qh"vjg"gpvkv{"tgurqpukdng"hqt"fkuejctikpi"vjg"dwtfgp"qh"rtqqh0""$ 

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ukpeg"kp" H 0."J1 \ D P E X2BDWPCV/586." ' L D E D 4236/WH CV/625." 7 R X N R2G6RWQCV/629." - D K Q V H Q236/WPEW62:." . K D4Q36/WPCV/6:8." 0 D \"X28/:/WPCV/:84"rctc"6:."

<sup>:;&</sup>quot;: L V K"42287/WPCV/759."rctc0"43"cpf"450"

<sup>&</sup>lt;sup>;2</sup>""Ugg" 2 X U L **42%9**%WPCV/967"rctc"36"cpf"37."ekvkpi "vq" 6 D Q **2423**6%WPCV/2:6"

<sup>&</sup>lt;sup>3</sup> 0 E D L J R4**2**8 P/WHPPCV/:3; "cv"rctcu0"48"cpf"49"

 $\label{thm:control} \mbox{Kv" tgnkg } f \mbox{"qp" vj g" uvcvg o gpvu" eqmgevg } f \mbox{"kp" vj g" kpx guvk i cvkqp" vq" vj g" gzvgpv" vj g \{ \mbox{"ugtxg } f \mbox{"vq" vj g" kpx guvk i cvkqp" vq" vj g" gzvgpv" vj g \{ \mbox{"ugtxg } f \mbox{"vq" vj g" kpx guvk i cvkqp" vq \mbox{"vj g" gzvgpv" vj g } \} = 0 \mbox{\mbox{$\sim$}} \mbox{\mbox{\mbox{$\sim$}} \mbox{\mbox{$\sim$}} \mbox{\mbox{$\sim$}} \mbox{\mbox{$\sim$}}$ 

 $\begin{aligned} &Ecug"Pq\&"WPFV1PD\&142391278"\\ &Lwfiogpv"Pq\&"WPFV1423;13:9"\end{aligned}$ 

fkf"pqv"tgncvg"vq"vjg"eqtg"qh"vjg"kpekfgpv"dwv"tcvjgt"vq"kvu"chvgtocvj."hqt"kpuvcpeg"ykvj"

 $\begin{aligned} &Ecug"Pq\&"WPFV1PD\&142391278"\\ &Lwfiogpv"Pq\&"WPFV1423;13:9"\end{aligned}$ 

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 $cnkgpcvkqp"qh"vjg"Eqornckpcpv"kp"vjg"gpxktqpogpv"cpf"jgpeg"jgt"xwnpgtcdknkv\{0"Vjg\{"pgkvjgt"wpfgtokpg"vjg"Eqornckpcpvøu"etgfkdknkv\{"pqt"gzewug"vjg"Crrnkecpvøu"dgjcxkqt0""pqt"gzewug"vjg"Crrnkecpvøu"dgjcxkqt0""pqt"gzewug"vjg"Crrnkecpvøu"dgjcxkqt0""pqt"gzewug"vjg"Crrnkecpvou"dgjcxkqt0""pqt"gzewug"vjg"Crrnkecpvou"dgjcxkqt0""pqt"gzewug"vjg"Crrnkecpvou"dgjcxkqt0""pqt"gzewug"vjg"Crrnkecpvou"dgjcxkqt0""pqt"gzewug"vjg"Crrnkecpvou"dgjcxkqt0""pqt"gzewug"vjg"Crrnkecpvou"dgjcxkqt0""pqt"gzewug"vjg"Crrnkecpvou"dgjcxkqt0""pqt"gzewug"vjg"Crrnkecpvou"dgjcxkqt0""$ 

870" Vjg"Crrnkecpv"hwtvjgt"k o rwipu"vjg"hcev"vjcv"vjg"Eq o rnckpcpv" fkf"pqv"dtkpi"jgt" eq o rnckpv" kpuvcpvn{" dwv" yckvgf" ugxgtcn" o qpvju0" Kp" vjku" tgncvkqp." vjg" Eq o rnckpcpv" vguvkhkgf" cv" ngpivj" jqy" vjg" NCH" qhhkekcnu" jcf" uwiiguvgf" vq" jgt" vq" ftqr" vjg" o cvvgt0"

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 $8:0" \quad Cu" \; eqpegtpu" \; vjg" \; Crrnkecpvøu" \; fghgpeg" \; qh" \; cnkdk." \; vjg" \; Vtkdwpcn" \; pqvgu." \; hktuv." \; fkuetgrcpekgu"kp" j ku"uvcvg o gpvu0"Kp"vjg"hktuv"qpg." 52"Lwpg"4237." vjg"Crrnkecpv" fqgu"pqv" tgcnn {"rtqxkfg"ceeqwpv"qh" j ku" y j gtgcdqwvu"hqnnq y kpi "O t0"Mchctcpkøu"fgrctvwtg"hqt"V {tg0" J g"qpn {"uc {u"vjcv" j g"õtgvwtpg fö"vq"vjg"qhhkeg"cv"34052"cpf"vjgp"nghv"hqt"nwpej<math>0$ ; 6"Qpn {"qp" 44" Lwn {" 4237" fqgu" vjg" Crrnkecpv" uwrrn {" vjcv" j g" y gpv" vq" vjg" W P KHKN1HEøu" qhhkeg" dgv y ggp"32052"cpf"32072"c0 o 0"cpf" o gv"gkvjgt"Eqnqpgn"Cpignq"Octweek"qt"cpqvjgt"uvchh" o g o dgt0"; 7""Kp"fguetkdkpi "vjg" o qtpkpi ."vjg"Crrnkecpv"ku"xgt {"rtgekug"cdqwv"vjg"rtgegfkpi" hcevu." kpenwfkpi" kpvgtcevkqp" y kvj" O t0" Mchctcpk." cpf" cdqwv" vjg" vk o kpi0" J ku" ncrug" qh" o g o qt {"cu" vq" y kvj" y j kej "uvchh" o g o dgt" j g" y qwnf" j cxg" fkuewuug f" cv" vjg" W P KHKN1HE"

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 $E cug'' Pq \emptyset < "WPFV | PD \emptyset | 4239 | 278" \\ Lwfiogpv'' Pq \emptyset < "WPFV | 423; |3:9" \\$ 

940"

 $970" \quad \text{Hwtvjgt."vjg" Crrnkecpv" korwipu"vjg" kpxguvkicvkqp" qp"vjg" dcuku"vjcv"vjg" hcev/hkpfkpi"Rcpgn"y cu"etgcvgf"lwuv"c"fc{"chvgt"vjg"Eqornckpcpv"hkngf"jgt"eqornckpv."yjgtgcu"uwej"c"rtqegfwtg"wuwcnn{"vcmgu"vyq"vq"vjtgg"yggmu0"Vjg"Vtkdwpcn"citggu"ykvj"vjg"Tgurqpfgpv"vjcv"wpfgt"vjg"ektewouvcpegu."ykvj"WPKHKN"ocpcigogpv"jcxkpi"dggp"ugk|gf"qh"kphqtocn"eqornckpvu"ukpeg"Hgdtwct{"cpf."cfokvvgfn{."WPKHKN/ykfg"pqvqtkgv{"qh"vjg"fkurwvg."vjg"hqtocvkqp"qh"vjg"rcpgn"oc{"jcxg"dggp"rtgrctgf"kp"cfxcpeg"cpf"ghhgevgf"koogfkcvgn{0""Vjg"Vtkdwpcn"eqpukfgtu"kv"c"tgcuqpcdng"cpf"ngikvkocvg"gzgtekug"qh"fkuetgvkqp0"}$ 

980" Kp" eqpenwukqp." vjg" Vtkdwpcn" fqgu" pqv" hkpf" xkqncvkqp" qh" vjg" tki jv" vq" rtgugpv" c" fghgpeg"qt"cp{"qvjgt"fwg"rtqeguu"tki jvu0"

### Y jgvjgt"vjg"guvcdnkujgf"hcevu"s wcnkh{"cu" o kueqpfwev"

 $\label{eq:power_sum} 990" \quad Vjg"guvcdnkujgf"hcevu"ngicnn \{"coqwpv"vq"okueqpfwev."kp"xkqncvkqp"qh"vjg"pqtou"eqpukuvgpvn \{"wrjgnf"d\{"vjg"Qticpk|cvkqp"ukpeg"cv"okpkowo"3;;4."yjgtg"ugzwcn"jctcuuogpv"ycu"fguetkdgf"cu"wpceegrvcdng"dgjcxkqwt"hqt"vjg"uvchh"qh"vjg"Wpkvgf"Pcvkqpu;8."cpf"tgkvgtcvgf"vjtqwij."coqpi"qvjgt."qwvncykpi."kp"4225."ugzwcn"gzrnqkvcvkqp"cpf"cdwug"cu"ugtkqwu"okueqpfwev"ycttcpvkpi"c"uwooct {"fkuokuucn;9."cpf"vjtqwij"c"fyvckngf"cpvk/jctcuuogpv"cpf"cdwug"qh"cwvjqtkv{"cv"yqtm"tgiwncvkqp"kp"422:0;:"}$ 

 $9:0" Vjg"Vtkdwpcn"hkpfu"vjcv"d{" "cpf"kortqrgtn{"wukpi"c"rqukvkqp"qh"kphnwgpeg"cpf"rqygt."vjg"Crrnkecpv"cevgf"cickpuv"uvchh"tgiwncvkqpu"$ 

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