! !!! !!!

Wednesdays, 1:30 to 2:30 PM or by appointment !" #\$!\$%&' ! (!)\*+, -. /01, 2034)5)\*  $\begin{array}{l} -.3.9,; !34^{*}<9.!:, 9014, /:!1, !)94>^{*}1.!)8^{*}/7.!18^{*}1!441!18.!:; .)444)!), /1.@15!F!9, , 6!A, += ^{+}-!1, !:8^{*}+4/7!18.:.! \\ .@; .+4. /).:!=418!D, 0!^{*}/-!^{*}>!8^{*}; ;D!1, !-4:)0::!)^{*}+..+!, ;14, /:!<, 18!4/:4-.!^{*}/-!, 01:4-.!^{*})^{*}-.>4^{*}5!! \end{array}$ 

\$D!18. !. / -!, A!184: !), O+: . C!D, O!: 8, O9-!<. !\*<9. !1, (!!

- F-. /14AD! G. D! /\*10+\*9! +. :, 0+). :! 4/! :0<?E\*8\*+\*/! BA+4)\*!\*/-! 18.4+! -4:14/)1!; 8D:4)\*9!)0910+\*9!:, )4\*9!</li>
  .), /, >4)C!\*/-!; , 9414)\*9!7., 7+\*; 84.:5!
- ".:)+4<.!-4AA.+./1!A,+>:!, A!./34+, />./1\*9!7, 3.+/\*/).!\*/-!8, =!18.:.!8\*3.!<../!\*-\*; 1.-!1, !BA+4)\*/!</li>
  ), /1.@1:5!!
- B; ; 9D!)+414)\*9!184/G4/7!:G499:!4/!1.+>:!, A!O/-.+:1\*/-4/7!18.!+.9\*14, /:84; !<.1=../!/\*10+\*9!+.:, O+).!O:.!</li>
  4/!BA+4)\*!\*/-!18.!79, <\*9!.), /, >D5!!
- O/-.+:1\*/-!)O++. /1!. /34+, />. /1\*9!)8\*99. /7.:!A\*)4/7!/\*10+\*9!+.:, O+).!>\*/\*7.+:!4/!BA+4)\*!\*/-!<.!\*<9.!</li>
  1, !\*+14)O9\*1.!D, O+!; .+:; .)143.:!\*/-!, ; 4/4, /:!\*<, O1!18.!; , 94)D!:, 9014, /:!)O++. /19D!<.4/7!-4:)O::.-5!!</li>

! T\*/7\*+4!6\*\*18\*4C!!"#\$%"&''#()#\$\*+,\$-\*,./&!SV. =!H, +G(!W\*/-, >!X, 0:.C!&YYZU! ! #8.!18.>.:!-4:)0::.-!4/!18.!A4+:1!;\*+1!, A!18.!), 0+:.!\*+.!, +7\*/4K.-!\*+, 0/-!<D!184:!:4/79.!), +.!1.@1!!''#\$

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B!94:1!, A!:0; ; 9. >. /1\*9!+. \*-4/7!\*/-!1. @1:!=499!<. !; , :1. -!, /!R, O+:. E; \*). :5!!!

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	F/1+, -0)14, /!1, !), 0+:. (!!! T 8D!BA+4)*`!#+. /-:!4/!/*10+*9!+. :, 0+). !0:. ! */-!79, <*9!4>; 94)*14, /:!!	V, !+. *-4/7 (! 0. +70:, /C! a*>.:5!R8*; 1. +! b(! F/1+, -0)14, /5! F/! ?'+9&'\$4''&5+@43\$ -*,./&\$.(\$2''#\$ (#+'.9#,&'\$@+,'5\$+,5#,5! ''OG.!O/43.+:41D! N+.::C! &YYc5! (!#8.!R8*99./7.!A, +!BA+4)*C\$R8*; 1. +!bd!
I		$(:\pi 0.: (0, \pi, 7.7)$ , $(\pi, \pi, \pi)$ , $(\pi 0, 7.7)$ , $(\pi 0, 7.7)$

 $\label{eq:started_s$ 

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B:!; . +!18. !B)* >4)!R*9. /-*+(	

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!		

 $(! 811; (^{^}=.<5034)5)^{*^})^{9}./-^{+}0/-.+7+^{-}4/A, ^{+}.709^{+}14, /:^{+})^{*}-.>4)?$ 

4/1.7+41D581>9!!

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$$\begin{split} & \text{E10-./1:} = 418! - 43. +: . !9. * + /4/7! : 1D9. : !*/-!/.. -: !*+. !=. 9), > . !4/!184:!), 0+: . 5!!F/!; *+14) 09*+t(!4A!D, 0!8*3. !*! -, )0>. /1. -! -4: * <4941D!, +! 8. *918!), /: 4-. +*14, /! 18*1! >*D!+. ]04+. !*)), >>, -*14, /: C!; 9. *: .!A...9!A+...!1, !*; ;+, *)8! > .! */-^, +! 18.! R. /1+.! A, +! B)). :: 4<9.! \.*+/4/7! SRB\! *:! :, , /! *:! ;, :: 4<9.! 811; : (^^ = = 5034)5) *^: .. +34). :^)*9^{15!!#8.!WRE''!: 1*AA!4!!*3*49*<9.! <D!*; ;, 4/1>. /1!1, !*:: .:: !:; .)4A4)!/.. -: C! ;+, 34-.!+.A.+*9:C!*/-!*+*/7.!*; ;+, :+4*1.!*)), >>, -*14, /: 5!#8.!:, , /. +!D, O!9.1!0:!G/, =!D, O+!/.. -: C!18.! ]04)G. +!=.!)*/!*:: 4:1!D, O!4/!*)84.34/7!D, O+!9.*+/4/7!7, *9:!4/!184:!), O+:.5! !!$$

 $\label{eq:solution} \begin{array}{l} \#8. \ |O/43. +: 41D!, \ AlP4)1, \ +4^* |4: !), \ >> 411. \ -!1, \ !; \ +, \ >, \ 14/70!; \ +, \ 34-4/7!*/-!; \ +, \ 1. \ )14/7!*!; \ ; \ :4143. \ !*/-!: \ *A. \ !9. \ *+/4/7! \\ \ */-!=, \ +G4/7!. \ /34+, \ />. \ /1!A, \ +!^*99!41: !>. \ ><. \ +: 5!\#, \ !. \ /:O+. \ !18*1!*99!)9^*: :!>. \ ><. \ +: \ !A. \ .9!=. \ 9), \ >. \ -!*/-!. \ ]O^*9D! \\ \ *<9. \ !1, \ !), \ /1+4<O1. \ !1, \ !)9^*: :!-4: \ )O:: 4, \ /:C!=. \ !=499!*99!. \ /-. \ *3, \ +!1, \ !<. \ !+. \ :; \ )1AO9!4/!, \ O+!9^*/7O^*7. \ C!, \ O+! \ @*>; \ 9. \ :C! \end{array}$ 

 $4265\#(24\times!!811;:(^{=}=5034)5)*^{:}+34):^{}, 0/:.994/7^{!}!$ 

X. \*918!E. +34). :!?!Y(.E#, 4.28\$A#&'2''\$C#, E./#4\$0YAC=\$; ,+E.5#4\$&\$\*6''\$4#, E./#\$; ,. 7&, 8\$''#&'2''\$/'.(./\$\*+,\$ 4265#(24J\$&(5\$/++,5.(&2#4\$''#&'2''8\$4265#(2\$&(5\$/&7;64\$.(.2.&2.E#43<u>811;(^^===5034)5)\*^:.+34).:^8.\*918^</u>! !

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e9-.+:p!P,4).:!?!