

# A U]bn'\_Àa d Zh'g]W\']bg'8: 6!Dc\_U`. '.%!G]Y[ '[ Y[ Yb K Y\Yb K ]YgVUXYb

A U]bn'\$) 'VYnk ]b[ h'GJ 'K Y\Yb'K ]YgVUXYb']a '8: 6!Dc\_U`'a ]h' .%'bUW 'J Yf`Àb[ Yfi b[ 'i bX'n]Y\h']b'X]Y'bÀW ghY'Fi bXY'Y]b"

GhUb X. '%\* "\$, "&\$&( '&\$.(, 'I \f

8 Yf 18: 6!Dc\_U`gcf[h'YXYg'\*J\f'ZØf'ØVYffUgW.YbXY'K YbXi b[YbibX'Yach]cbU`Y'AcaYbhY']a 'XYi hgW.Yb':i \*VU``"=a '5i ZhU\_hgd]Y`XYg'K YhhVYk YfVg'i bhYf`U['XYf'8f]hh`][]gh'GJ'K Y\Yb'K]YgVUXYbUa':fY]hU['f%\*"\$, "&\$&(Ł'XYa'\Ò\Yf\_`Ugg][Yb'%":GJ'AU]bn'\$)bUW.'%&\$'gdUbbYbXYb'A]bi hYb'a]h'%' "'8]Y'AU]bnYf'aigghYbg]W.Xi fW.\_AadZYbžia']a 'F\Y]b!AU]b!8YfVm'XYb'9]bni[']b'X]Ynk Y]hY'Fi bXY'ni 'g]W.Yfb"

### $9]b^Dc_U^Z][ \h^a ]h^VYffUgWib[ Yb]$

8]Y'DUfh]Y'VY[Ubb'ØVYffUgW\YbXž'U`g'XYf'; Ugh[YVYf'GJ'K Y\YbK]YgVUXYb'gW\cb']b'XYf'%("'A]bi hY'Xi fW\'HUf]\_'; ÒnØg]f]b'a]h'%\$
]b': Ø\fi b['[]b["'AU]bn'hfUh'U`g': Uj cf]h'Ui Zž'\_cbbhY'YXcW\ni bÀW\gh'b]W\h'XUg'bÒh][Y': Yi Yfk Yf\_'YbhZU`hYb'i bX'gU\'g]W\Y]bYf'gc`]XYb'JYfhY]X][i b['XYf'K]YgVUXYbYf'[Y[YbØVYf"'8]YgY\_cbbhYb'bUW\'Y]bYa'W\Uch]gW\Yb'A ca Ybh']a'AU]bnYf'GhfUZfUi a]b': Ø\fi b['[Y\Ybž'k Ug'Ui Z'X]Y'I bVYfYW\YbVUf\_Y]h'XYg'Dc\_U`g\]bXYi hYh"

#### 8]YFc``YXYgHcfk Ufhg

8]Y`AU]bnYf`\UhhYb`a]h`]\fYa`HcfkUfh`FcV]b`NYbhbYf`Y]bYb nijYf`Àgg][Yb`FØW\_\U`h"`?ifn`jcf`XYf`DUigY`jYf\]bXYfhY`Yf`X]Y Xfc\YbXY`JYf[fÒ»Yfib[`XYg`FØW\_ghUbXg`a]h`Y]bYf`ghUf\_Yb

#### A U]bn'\_Àa dZh'ni fØW\_

± XYfink Y]hYb'< U`VnY]higW\UZhY'Yg'8ca ]b]\_'?c\fi]b'XYf') - "A]bi hYžXUg'l bYbhgW\]YXYb'ZØf'A U]bn'\Yfni ghY``Yb"'8]YgYf
5i g[`Y]W\'\U`Z'XYb'A U]bnYfbž'g]W\'ni 'ghUV]`]g]YfYbž'Ui W\'k Ybb
K Y\Yb'k Y]hYf\]b'[YgW\`cggYb'j YfhY]X][hY"'9]b'k Y]hYfYg'Hcf'ZØf
X]Y'; ÀghY'gW\]Yb']b'XYf'@ Zh'ni '`]Y[Ybž'XcW\'X]Y'K ]YgVUXYbYf
5Vk Y\f``]Y» 'g]W\'b]W\h'gc'`Y]W\h'ØVYfk ]bXYb"

# 9bhgWXY]XYbXY'A ca YbhY']b'XYf JYf`Àb[Yfi b[

 $\label{eq:continuous_problem} $$Jcf'XYf'JYf'Ab[Yfib['ibX'Ub[Yg]Wkhg'Y]bYg'a \ O[`]WkYb 9`Za YhYfgWk]Y*Ybg'ghY][YfhY'g]Wk'XYf'8fi W_'Ui Z'X]Y'Gd]Y`Yf'j cb $$K Y\Yb''@Y]XYf'_cbbhYb'g]Y'X]Y'ZcfhgWkfY]hYbXY'9fgWk\Od\Z b['b]Wkh i b[YgWkY\Yb'a UWkYb'''A U]bn'\]b[Y[Yb'j Yfgi WkhYž'X]Y'8]b[Y'ni]\fYa 'JcfhY]``ni 'k YbXYb''' %bUh\Ub'6i f_UfXh'Yfn]Y`hY']b'XYf''%''' "A]bi hY'XUg'&.%ž'[YZc`[h'j cb'BUX]Ya '5a]f]ž'XYf'_i fn'j cf'XYa $$GWk`i ggdZ]ZZ'XYb''' .%!9bXghUbX'\YfghY``hY'''8]YgY'HcfY j YfXYi h`]WkhYbž'XUgg'XYf'6i bXYg`][]gh'Ui Wk']b'gWkk]Yf][Yb'NY]hYb gWk`U[_f\AZh]['V`Y]Vh''' $$$ 

# 6`]W\_ ]b X]Y Ni \_i bZh

A ]h'X]YgYa 'G]Y['g]WXYfh'g]WX 'A U]bn'\$) 'XYb'D`Uhn']b'XYf'bÀWXghYbFi bXY'XYg'8: 6!Dc\_U`g'i bX'\_Ubb'bi b'cdh]a ]gh]gWX']b'X]Y'bYi Y6i bXYg`][U!GU]gcb'ghUfhYb"'8 Ug'HYUa 'k]fX'Ua 'GUa ghU[f&("\$, "&\$&(Ł'XYb'%": 7'I b]cb'6Yf`]b'Ya dZUb[Ybž'kÀ\fYbX'XYf'GJKY\Yb'K]YgVUXYb'Ua 'GcbbhU['f&)"\$, "&\$&(Ł']b'XYf'' "'@][U[Y[Yb'XYb'JZ6'Ghi hh[Ufh'=UbhfYhYb'a i gg"'8]Y'9fY][b]ggY'XYgGd]Y`g'j YfXYi h`]WXYb'b]WXh'bi f'X]Y'I bVYfYWXYbVUf\_Y]h'XYg'Dc\_U`gžgcbXYfb'Ui WX'XYb'?Ua dZ[Y]gh'VY]XYf'A UbbgWXUZhYb']b'X]YgYfZfØ\Yb'D\UgY'XYf'GU]qcb"

# 6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'b!U[ "XY