## Department of Statistical and Actuarial Sciences. University of Western Ontario

Room 262 Western Science Centre. Phone: 519-661-3607. Fax: 519-661-3813

# 5 Xj UbWX: ]bUbVJU A cXY`]b[ 8\$% #&\$%

: ]bUbV/U A cXY`]b[ -) &%6#() &%6 GYV/I/cb \$\$%

## 7ci fgYCi h]bY

# =bdfi Wacf =bZcfa Unjcb

=bgffi Watcf < UC'M CZZJVV K G7'8%+

9a U]` \mi 4 g'Urg'i k c'\W D\cbY )\%!\*\*\%' \*&&\YI h, ' \*&&

**CZZ**]**W**'< **ci fg** H65

## 7 ci fgY =bZcfa Uhjcb

**7 ci fgY'8 Yg/Vf]dH]cb** 7 cbH]bi ci gH]a Y a cXY`gž 6 fck b]Ub a cH]cbž ghcWlUgH]W]bHY[fUgž ‡hcfgi `Ya a U'

 $6`U\underline{W}!GWkc`Yg!A Yffrcb a Uf_Yh a cXY`ž UfV]lffU[Y UbX a Uf_Yh Wta d`YhYbYggž 6`U\underline{W}!GWkc`Yg D8 9ž f]g_!bYi lffU df]V]lo[ UbX a Ufi]b[UY a YUgi fYg'; fYY_g UbX \YX[]b[ž YI hYbg]cbg cZ 6`U\wull GWkc`Yg a cXY`ž ]a d`]YX j c`Uf]`]hmž 5 a Yf]Wb cdl]cb$ 

j U i U jcb" J Ug]W\_UbX 7 cl !=b[Yfgc``!F cgg]bhYfYghfUY a cXY`g'

**DfYfYei ]gYg**  $\underline{GG\& ) +5\#b} \check{z} \underline{GG' ) \&\$5\#b} 5 \text{ a ]b]a i a a Uf\_ cZ*\$i ]b Y]hXYf:]bUbV}U \text{ A cXY}`]b[$ 

') &\$5#6 fcf h\Y Zcfa Yf GhUnjghjWl' GVJYYbWlg') &\$5#61z cf: ]bUbVJJU' A cXY`]b['\*% 5#6 fcf h\Y Zcfa Yf 5dd`]YX A Un\Ya UnjWg'\*% 5#61z UbX U a ]b]a i a a Uf\_ cZ

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= Z mci Ufy i blw'y hc a YYh U Wti fgY fYei ]fYa Ybh Xi Y hc ]``bYgg cf ch\yf gYf]ci g WJfWa ghlbWgž mci a i gh dfcj ]XY j U]X a YX]WU cf ch\yf gi ddcff]b[ XcWa Ybhluficb hc mci f 8 Ylbfig cZZ]W llg gccb llg dcgg]V`Yž llbX Wtbhlwh mci f ]bghfi Whcf ]a a YX]Uh'm' = Z UWWta a cXUh]cb ]g llddfcj YX Vm mci f 8 Ylbfig cZZ]Wž mci f ]bghfi Whcf k ]`` VY bch]Z]YXž h\yb ]h ]g mci f fygdcbg]V]`]mm hc a U\_Y U'hYfbllhj Y Ufflb[Ya Ybhg k ]h\ mci f ]bghfi Whcf' = b h\y Yj YbhcZ U a ]ggYX Z]bU Yl lla ž U "F Ywta a YbXllhjcb cZ GdYVJU 9l lla ]blh]cb" Zcfa a i gh VY cVhU]bYX Zfca h\y 8 Ylbfig C ZZ]WV ]a a YX]Uh'm' : cf Zi fh\yf ]bZcfa llhjcb d'Ylbfy gYY. \htd.##Z|o\yf'ghlnd'i k c"\W#Uwta a cXllhcbSa YX|WV"dXZ'

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**httd:** k Y90j|Yjacf0FfY[]dfUf]U GYfj ]Wg]<u>9\httd:</u> k k "fY[]dfUff]k c"W"

# 9a Uj`7ca a i b]Wuhjcb

Mci UfY k Y`Wta Y hc Wta a i b]\WhY k ]h\ mci f ]bghfi Whcf VmYa U]` $\dot{z}$  Vi hYa U]` Wta a i b]\Wh]cb g\ci `X cb`m W i g\X hc dfcj ]XY h\Ya k ]h\ ]bZcfa Uh]cb cf hc Ug\_ U ei Ygh]cb h\UhfYei ]fYg U Vf]\Z fYgdcbg\": cf a cfY `Yb[ h\mX]g\Wgg]cbg UbX Zcf X]g\Wgg]cbg cb `Y\Mi fYg\Wti fgY a UhYf]\U d`YUg\Y g\Y mci f ]bghfi \Wtcf Xi f]b[ \h\Y]f g\WYXi `YX cZZ]\W \ci fg cf \mU\Uddc]bha Ybh' = \mathbb{Z} mci Xc Ya U]` \h\Ya \mathbb{Z} d`Y\Ug\Y i g\Y mci f I K C \mathbb{Z} Uh\Yg\Y uf\Y cZh\Yb' \h\Ycb`m\Ya U]`g'g\Y\U\X'f\Ug\Ya U]`g'g\Ybh\Zfca 'ch\Yf`\UXXf\Yg\Yg\g'g\Zh\b' [ Yhgd\La a Y\X\L''

### 5HYbXUbW

5 HhYbXUbW. 7`Uggfcca UthYbXUbW]gj]Yk YX Ug Ub]a dcftUbhdUfhcZh\Y`YUfb]b[ dfcWgg' Ghi XYbhg UfY UXj]gYX h\uh YI Wgg]j Y UVgYbhYY]ga a UmfYgj`h]b h\Y ghi XYbhVY]b[ X]gVUffYX Zfca h\Y Z]bU YI Ua ffgYY K YghYfb 5 WUXYa]W 7 U YbXUft'' 7`Ugg 9bj]fcba Ybh Dc`]Wh H\Y 8 YdUfha Ybh \Ug UXcdhYX U "Aihi U 9I dYWhUf]cbg" dc`]Wh[cj Yfb]b[ h\Y WUqpfcca Ybj]fcba YbhUbX U`k cf\_gi Va]HhYX V ] c