

fCf“fXfg[f<,³,è,Ä,ç,éfQ[f€ fRf“fgf[f%o,ì^è—,ÆAŠefRf“fgf[f%o,ìó’Ô,ª•\Ž!,³,è,Û,·B fRf“fgf[f%o,ìfexfgAÿ’èA,Û,½,í²@,ðs,π,É,íA^è—,Å-Ú“l,ìRf“fgf[f%o,ðfNfŠfbfN,μA[fvf[fpfefB]  
.ðfNfŠfbfN,μ,Û,·B

□V,μ,ϕfQ□[f€ fRf“fgf□□[f%o,đ'Ç%oÁ,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

[fQ[f€ fRf"fgf[f%o] f{fbfNfX,É•\Ž!,³,é,éî•ň,ðX[V,μ,Ü,-B

'l'đ,μ,½fQ□[f€ fRf"fgf□□[f%o,đ□í□œ,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·□B

fQ[f€ fRf“fgf[f%o,lfefXfg[A’²@,đs,α,Æ,«,ÉNfŠfbfN,μ,Û,·B

fRf“fsf...[]f^,ÉfCf“fXfg[]f<,³,è,Ä,ç,éŠefQ[]f€ fRf“fgf[][]f%,,ì ID ,ì^è—,ª•\Ž!,³,è,Ü,·□B ŠefQ[]f€  
fRf“fgf[][]f%,,ÉŠ,,è“-,Ä,ç,è,½ ID ,í•ĪX,Å,«,Ü,·□B

,±,ìfRf“fsf...[]f^,ÉfCf“fXfg[]f<,³,ê,Ä,ç,éfQ[]f€ fRf“fgf[]f%o,ì^ê—,ª•\Ž|,³,ê,Ü,·[]B

fRf“fgf□□[f% ID ,Æ□AŠe ID ,ÉCE»□ÝŠ,,è“- ,Ä,ç,ê,Ä,ç,éfQ□[f€ fRf“fgf□□[f% ,î^ê— ,ª•\Ž!,ª,ê,Ü, .□B



'l'đ,μ,½ ID ,ÉŠ,,è“-,Ä,éfQ□[f€ fRf“fgf□□[f%o,đ•İ□X,·,é,Æ,«,ÉfNfŠfbfN,μ,Ü,·□B

fQ[f€ fRf“fgf□□[f%° f|□[fg,Éf|□[fg fhf%°fCfo,ª•K—v,È□ê□‡,í□A,±,±,Åf|□[fg fhf%°fCfo,đŽw’è,μ,Û,·□B

f,ff€ ,È,Ç,ì,Ù,©,ìfffofCfX,ªAfQ[f€ fRf“fgf[f%o,ì“®ì,ÉŠ,,èž,ß,é,æ,α,É,μ,Û,·B ,½,¾,μA,±,ìf`fFbfN  
f{fbfNfX,ðflf“,É,·,é,ÆAfQ[f€ fRf“fgf[f%o,ì%ž“š,ªx,è,é,±,Æ,ª, ,è,Û,·B  
fQ[f€‘t,ÉfWf#fCfXfefBbfN,ªªí,É“®ì,μ,È,çè# ,íA,±,ìf`fFbfN f{fbfNfX,ðflft,É,μ,Û,·B  
flf“f%ofCf“,ÅfQ[f€,ðs,Á,Ä,ç,é,Æ,«,Éf,ff€,ªªí,É“®ì,μ,È,çè# ,âAfQ[f€ fRf“fgf[f%o,ðŽg—  
p,μ,Ä,ç,é,Æ,«,Éflbfgf[fN,à,Ù,©,ìfn[fhfEfffA,Â-â‘è,ª¶,¶,éè# ,íA,±,ìf`fFbfN f{fbfNfX,ðflf“,É,μ,Ä,-  
,¾,¾,çB

fQ[f€ fRf“fgf[f%o,İŽí—p (—á : 2 f{f^f“,İftf%ofCfg f^ [fN) ,Æ»•i-¼ (—á : Microsoft SideWinder 3D Pro) ,İ^ê—,đ•\Ž,ı,Ü,·B fQ[f€ fRf“fgf[f%o,İ»•i-¼,ª,í,©,Á,Ä,ç,éêê‡,ÍA,»,İ»•i-¼,đ'İ'đ,ı,Ä,-,¾,¾,çB

Žg—p,·,éQ[f€ fRf“fgf[f%o,İ»•i-¼,âŽí—p,ª^ê—,É•\Ž,¾,ê,È,çêê‡A m,»,İ'¼n ,đNfŠfbfN,ı,ÄAfRf“fgf[f%o,İhf%ofCfo,đfC“fXfg[f<,ı,Ü,·B,Ü,½,ÍA mft[fU [Ÿ'è n ,đNfŠfbfN,ı,ÄAfRf“fgf[f%o,İ“Á«,đŽw'è,ı,Ü,·B

fQ[f€ fRf“fgf[f%oo,â^ê—,É•Ž!,³,è,„AfCf“fXfg[f< fffBfXfN,ðŽg—p,·,é,Æ,«,ÉfNfŠfbfN,μ,Û,·B •\ Ž!,³,è,éf\_fCfAf[fO f{fbfNfX,ì [fffBfXfNŽg—p] ,ðfNfŠfbfN,μ,ÄA%ooæ-É,É•Ž!,³,è,éŽwŽ!,É],ç,Û,·B

fQ[f€ fRf“fgf[f%o,â^ê—,É•Ž!,³,è, AfCf“fXfg[f· fffBfXfN,à,È,ç,Æ,«,ÉfNfŠfbfN,μ,Û,·B fRf“fgf[f  
%o,ì“Á«,đŽw'è,·,é,±,Æ,â,Ā,«,Û,·B

fQ[f€ fRf“fgf[f%„ìŽ²”,đŽw’è,μ,Û,·B —áŠO,í, ,è,Û,·,ªA2 Ž²,ìfQ[f€ fRf“fgf[f%„ìè±A’ÊíAä  
%º,Æ¶%E,ì“®,«,đRf“fgf[f<,μ,Û,·B 3 Ž²,ìfQ[f€ fRf“fgf[f%„ìè±,íA’ÊíAfXföbfgf<  
fRf“fgf[f<,ª•t,ç,Ä,ç,Û,·B 4 Ž²,ìfQ[f€ fRf“fgf[f%„ìè±,íA’ÊíAfXföbfgf<,Æf%f\_¶[,ª•t,ç,Ä,ç  
,Û,·B

fQ[f€ fRf“fgf[f%o,lf{f^f“” ,đŽw'è,μ,Û,·B



□Ý'è, : ,éfQ□[f€ fRf''fgf□□[f%o, iŽí—p, ðŽw'è, μ, Ü, . □B

□ê—p,É□ŸŒv,<sup>3</sup>,ê,½fQ□[f€ fRf“fgf□□[f%o,Å, ,é,±,Æ,đŽw'è,μ,Û,·□B

8 • ů Œ ü, Ö, Ì ^ Ú " @, º % Å " \, È f ^ f b f ` f f f B f Œ f N f V f f j f i f < f R f " f g f [ f % , Å, , é, ±, Æ, đ Ž w ' è, μ, Ü, · □ B ' Ê □ í □ A, ±, Ì Ž í —  
p, Ì f Q □ [ f € f R f " f g f [ f % , É, Í 2 □ ` 4 Œ Å, Ì f { f ^ f " , º, , è, Ü, · □ B

fQ[f€ fRf“fgf[f%o,Éfnf“fhf<AfAfNfZf< fyf\_f<Afuf€[fL fyf\_f<ª, ,é,±,Æ,đŽ!,μ,Û,·B

fQ[f€ fRf“fgf[f%o,ÉŽ<ŠE,ì∅,è'Ö,|<@"\,ª, ,é,±,Æ,ðŽw'è,μ,Û,·B Ž<ŠE,ì∅,è'Ö,|<@"\,ðŽg,α,ÆA%oæ-  
Éã,ìfìfufWfFfNfg,ðŒ©,é^Ê'u,âŠp“x,ðŽw'è,Å,«,Û,·B

ft[]fU[][]'è,ìfQ[]f€ fRf"fgf[]f%o,ì-¼'O,ð"ü—í,·,é[]ê[]Š,Å,·[]B ,±,±,É"ü—í,μ,½-¼'O,í[]AfRf"fsf...  
[]f^,ÉfCf"fxfg[]f<,³,è,Ä,ç,é—~—p%oÂ"\,ÈfRf"fgf[]f%o,ì^è—,É•\Ž|,³,è,Ü,·[]B

fRf“fgf□□lf%°,afWf#fCfXfefBfbfN,Å, ,é,±,Æ,šŽw’è,μ,Û,·□B

'l'ö,µ,½fQ□[f€ fRf“fgf□□[f%o,ÉŠ,,è“-,Ä,é,±,Æ,ì,Å,«,éfRf“fgf□□[f%o ID ,ð•\Žì,µ,Û,·□B fRf“fgf□□[f%o ID  
,ð•ï□X,·,é,É,í□A-î^ó,ðfNfŠfbfN,µ,Ä,,¾,¾,¾,¾□B  
fQ□[f€ fRf“fgf□□[f%o,ì ID ,É 1 ,ðŠ,,è“-,Ä,é•K—v,ì, ,éfQ□[f€,à, ,è,Û,·□B



'l'đ,μ,½fRf“fgf□□[f%o ID ,ā•\Ž!,³,ê,Û,·□B,±,ì ID ,ÉfQ□[f€ fRf“fgf□□[f%o,đŠ,,è“-,Ä,é,É,í□A[fQ□[f€  
fRf“fgf□□[f%o.] f{fbfNfX,î^ê—,Å-Ú“l,ìfRf“fgf□□[f%o-¼,đfNfŠfbfN,μ,Û,·□B

—~—ρ%oÂ“\,ÈfQ□[f€ fRf“fgf□□[f%o,ì^ê—,đ•\Ž!,μ,Û,·□B

Ž<sup>2</sup> 1 ,Æ 2 ,ì“®ò”í^í,ð•\Žì,μ,Û,·□BŽg—p,·,éfQ□[f€ fRf“fgf□□[f%o,ìŽ<sup>2</sup> 1 ,Æ 2 (‘É□í X ,ÆY)  
,ì“®ò”í^í,ð’²□@,·,é,É,í□A’²□@□í•ň,ìŽwŽì,É□],Á,Ä‘€□ì,μ,Ä,,¾,¾,ç□B

Ž² 3 ,ì“ @ì”í^í,ð•\Ž!,μ,Û,·□BŽg—p,·,éfQ□[f€ fRf“fgf□□[f%o,ìŽ² 3  
,ì“ @ì”í^í,ð²□@,·,é,É,í□A²□@ì•ň,ìŽwŽ!,É□],Á,Ä‘€ì,μ,Ä,,¾,³,ç□B

Ž<sup>2</sup> 4 ,ì“ @ì”í^í,đ•\Ž!,μ,Ü,·BŽg—p,·,éfQ[f€ fRf“fgf[f%o,ìŽ<sup>2</sup> 4  
,ì“ @ì”í^í,đ’@,·,é,É,íA’@ì•ň,ìŽwŽ!,É],Á,Ä‘€ì,μ,Ä,,<sup>3</sup>/<sub>4</sub>,<sup>3</sup>,çB

Ž<sup>2</sup> 5 ,ì“@ì”í^í,đ•\Ž!,μ,Ü,·□BŽg—p,·,éfQ□[f€ fRf“fgf□□[f%o,ìŽ<sup>2</sup> 5  
,ì“@ì”í^í,đ’²□@,·,é,É,í□A’²□@ì•ň,ìŽwŽ!,É□],Á,Ä’€ì,μ,Ä,,<sup>3</sup>/<sub>4</sub>,<sup>3</sup>,ç□B

Ž<sup>2</sup> 6 ,ì“ @ì”í^í,đ•\Ž!,μ,Ü,·□BŽg—p,·,éfQ□[f€ fRf“fgf□□[f%o,ìŽ<sup>2</sup> 6  
,ì“ @ì”í^í,đ’²□@,·,é,É,í□A’²□@ì•ň,ìŽwŽ!,É□],Á,Ä’€ì,μ,Ä,,<sup>3</sup>/<sub>4</sub>,<sup>3</sup>,ç□B

Ž<“\_ ,đã%°¶¶%E,É“® ,© ,μ,½,Æ,« ,îÊ’u,đ•\Ž!,μ,Û,·B fQ[f€ fRf“fgf[f%°,ìŽ<“\_∅,è’Ö,¡;<@”\ ,đ’∅@ ,·,é,É,íA’∅@¶î•ň,ìžwŽ!,É],Á,Ä’€∅ì,μ,Ä,,¾,³,çB



fQ[f€ fRf“fgf[f%o,Éf%of\_[,Ü,½,Ífyf\_f<,ª•t,ç,Ä,ç,é,±,Æ,ðŽw’è,μ,Û,·B, ,é,ç,ÍA•Ê,Íf  
%of\_[,Ü,½,Ífyf\_f<,ðÚ’±,μ,½,±,Æ,ðŽw’è,μ,Û,·B fQ[f€,Åf%of\_[,âfyf\_f<,ðŽg—p,Å,«,é,æ,α  
,É,·,é,Æ,«,ÍA,±,Íf`fFbfN f{fbfNfX,ðfÍ“,É,μ,Û,·B

fQ[f€ fRf“fgf[f%o,đ'²@,;é,Æ,«,ÉfNfŠfbfN,μ,Û,·B ,±,ì'²@,É,æ,èAŽg—p,;éfQ[f€ fRf“fgf[f%o  
,ìŽ²,ì“@i”íí,ªÝè,³,è,Û,·B Žg—p,;éfQ[f€ fRf“fgf[f%o,ÉŽ<“\_Ø,è'Ö,¡<“\,ª•t,ç,Ä,ç  
,éêê‡,íA,»,ì<“\,đ'²@,;é,±,Æ,à,Å,«,Û,·B

Ž<sup>2</sup> 1 ,Æ 2 ,ì“®ò”í^í,ð•\Žì,μ,Ü,·□BŽg—p,·,éfQ□[f€ fRf“fgf□□[f%o,ìŽ<sup>2</sup> 1 ,Æ 2 (‘É□í X ,ÆY)  
,ì“®ò”í^í,ð’²□@,·,é,É,í□A’²□@□í•ň,ìŽwŽì,É□],Á,Ä‘€□ì,μ,Ä,,¾,¾,ç□B

Ž² 3 ,ì“@□ì”í^í,đ•\Ž!,μ,Ü,·□BŽg—p,·,éfQ□[f€ fRf“fgf□□[f%o,ìŽ² 3  
,ì“@□ì”í^í,đ²□@,·,é,É,í□A²□@□î•ň,ìŽwŽ!,É□],Á,Ä‘€□ì,μ,Ä,,¾,³,ç□B

Ž<sup>2</sup> 4 ,ì“ @ì”í^í,đ•\Ž!,μ,Ü,·□BŽg—p,·:éfQ□[f€ fRf“fgf□□[f%o,ìŽ<sup>2</sup> 4  
,ì“ @ì”í^í,đ’²□@,·:é,É,í□A’²□@ì•ň,ìŽwŽ!,É□],Á,Ä’€ì,μ,Ä,,<sup>3</sup>/<sub>4</sub>,<sup>3</sup>,ç□B

Še'²®Žè†,É,Â,ç,Äà-¾,µ,Ü,·B

Ž<sup>2</sup> 1 ,Æ 2 ,ì“®ì”í^í,ðfefXfg,μ,Û,·BfefXfg f{fbfNfX,ì 4 ,Â,İšp,É^Ú“® ,Â,« ,é ,© ,Ç,κ ,© ,ðŠm“F,μ,Ä,-  
,¾,¾,çB Ž<sup>2</sup> 1 ,Æ 2 ,³³,μ,“½%ž,μ,È,çê±,íAfQlf€ fRf“fgf[]f%ø,ðÄ²® ,μ,Ä,,¾,¾,çB

Ž<sup>2</sup> 3 ,ì“ ®□”í“í,đfefXfg,μ,Ü,·□BfQ□[f€ fRf“fgf□□[f%°,ìŽ<sup>2</sup>fRf“fgf□□[f%°,đŽg,Á,Ä□AfefXfg f{fbfNfX,ì□ă,Æ  
%°°,É^Ú“® ,Ä,«,é,©,Ç,α,©,đŠm“F,μ,Ä,,<sup>3</sup>/<sub>4</sub>,<sup>3</sup>,†□BŽ<sup>2</sup> 3 ,<sup>3</sup>□<sup>3</sup>,μ,“<sup>1</sup>/<sub>2</sub>%°ž,μ,È,†é□†,í□AfQ□[f€ fRf“fgf□□[f%°  
,đ□Ä’<sup>2</sup>□®,μ,Ä,,<sup>3</sup>/<sub>4</sub>,<sup>3</sup>,†□B



Ž<sup>2</sup> 4 ,ì“ @□”í“í,đfefXfg,μ,Ü,·□BfefXfg f{fbfNfX,ì□ă,Æ%oo²,É^Ú“ ®,Ä,«,é,©,Ç,α,©,đŠm“F,μ,Ä,,¾,¾,ç□B Ž<sup>2</sup>  
4 ,ª□³,μ,”¾%oož,μ,È, ç□ê□†,í□AfQ□[f€ fRf“fgf□□[f%o,đ□Ä'²□® ,μ,Ä,,¾,¾,ç□B

Ž<sup>2</sup> 5 ,ì“ @□”í“í,đfefXfg,μ,Ü,·□BfefXfg f{fbfNfX,ì□ă,Æ%oo²,É^Ú“ ®,Ä,«,é,©,Ç,α,©,đŠm”F,μ,Ä,,¾,¾,ç□B Ž<sup>2</sup>  
5 ,<sup>a</sup>□<sup>3</sup>,μ,”¾%ož,μ,È,ç□é□†,í□AfQ□[f€ fRf“fgf□□[f%o,đ□Ä’<sup>2</sup>□® ,μ,Ä,,¾,¾,ç□B

Ž<sup>2</sup> 6 ,ì“®□”í“í,đfefXfg,μ,Ü,·□BfefXfg f{fbfNfX,ì□ă,Æ%oo²,É^Ú“® ,Ă,«,é,©,Ç,α,©,đŠm”F,μ,Ă,,¾,¾,ç□B Ž<sup>2</sup>  
6 ,<sup>a</sup>□<sup>3</sup>,μ,”¾%oož,μ,È,ç□é□†,í□AfQ□[f€ fRf“fgf□□[f%o,đ□Ă’<sup>2</sup>□® ,μ,Ă,,¾,¾,ç□B

fQ[f€ fRf“fgf[f%o,ÉŽ<“\_Ø,è'Ö,¡<@“\,³•t,ç,Ä,ç,éê±,ÍA,»,ì<@“\,ðefXfg,μ,Û,·B Ž<“\_Ø,è'Ö,¡<@“\  
,ðefXfg,·,é,É,ÍAã%°¶%E,É“® , ©, μ, Û, ·B ¶³, μ, ”½%ž, μ, È, çê±, ÍAfQ[f€ fRf“fgf[f%o  
,ðÄ'²® , μ, Ä, , ¾, ¾, çB

fQ[f€ fRf“fgf[f%o,lf{f^f“,ðfefXfg,μ,Ü,·B fQ[f€ fRf“fgf[f%o,İŞef{f^f“,ð^ê“x,É^ê%oñ,„,Â%oÿ,μ,Ä,-  
,¾,³,çB f{f^f“,İŞ,,è“-,Ä,íAfQ[f€ fRf“fgf[f%o,İ»‘çCE³,ÅCE^,ß,ç,è,Ä,ç,Ü,·B

Ž<“\_□Ø,è‘Ö,¡<@”\,ì’²□@,ìŠeŽè□‡,ª□l,í,Á,½,ç□A,±,±,ďfNfŠfbfN,·,é,© **Enter** fL□l,ď%Ÿ,μ,Û,·□B

'O,ì'²□®Žè□‡,É-β,è,Ü,·□B Ⓒ»□Ý,ìŽ²,í□A'²□®,³,è,È,ç,Ü,Ü,©□A'O,É'²□®,³,è,½'I,É-β,è,Ü,·□B

CE»Ÿ,ì²@Žè‡,đfXfLfbfv,μ,ÄAŽŸ,ìfRf“fgf[f<,đ²®,μ,Ü,·B CE»Ÿ,ìŽ²,íA²®,³,è,È,č  
,Ü,Ü,©A'O,É²®,³,è,½'l,É-β,è,Ü,·B



Ž<“\_∅,è'Ö,¡<@“\,ì²® ,ìŠeŽè‡,ªI,í,Á,½,çA,±,±,đNfŠfbfN,·,é,© **Enter** fL[,đ%Ÿ,μ,Ü,·B

'O,ì'²□®Žè□‡,É-β,è,Ü,·□B Ⓒ»□Ý,ìŽ²,í□A'²□®,³,è,È,ç,Ü,Ü,©□A'O,É'²□®,³,è,½'I,É-β,è,Ü,·□B

CE»Ý,ì²®Žè‡,đfXfLfbfv,μ,ÄAŽŸ,lfRf"fgf[f<,đ²®,μ,Ü,·B CE»Ý,ìŽ²,íA'²®,³,ê,È,¢  
,Ü,Ü,©A'O,É'²®,³,ê,½'l,É-ß,è,Ü,·B

□V,μ,ϕfQ□[f€,đfCf“fXfg□[f<,Ā,«,éfhf%ofCfu,Æ□AfQ□[f€,ĀŽg—p,·,éfffBfXfN—e—Ē,đ•\Ž!,μ,Ü,·□B fQ□[f€  
,ĀŽg—p,·,éfffBfXfN—e—Ē,ìš,,□‡,í□A□œŠO,<sup>3</sup>ê,½fhf%ofCfu,Ā,í•Ī□X,<sup>3</sup>ê,Ü,<sup>1</sup>ñ□B

, : , x , Ä , ì , h , % , o , f , C , f , u , Å , □ , A , f , Q , □ , [ , f , € , É , Ž , g , — , p , : , é , f , f , B , f , X , f , N , — , e , — , Ê , ì , Š , ù , ' , è , ì , Š , „ , † , ð , € , ³ , É , — , ß , μ , Ü , · , □ , B

fQ[f€,ÅŽg—p,Å,«,éfffBfXfN—e—Ê,đ'²® ,μ,Û,·B

f{fCfX f`fffbfg,đŽg—p%oÂ"\\,É,·,é•û-@,Æ□Af{fCfX f`fffbfg,ìŽg,†•û,ì□Ú□×,đ•\Ž!,μ,Û,·□B

fif“f%ofCf”□ā,iŽQ%oÁŽÒ,Æf`fffbfq,μ,È,<sup>3</sup>,cfvfCEfC,Å,«,éfQ□[f€,ì^ê—,<sup>3</sup>•\Ž!,<sup>3</sup>,ê,Ü,·□B



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