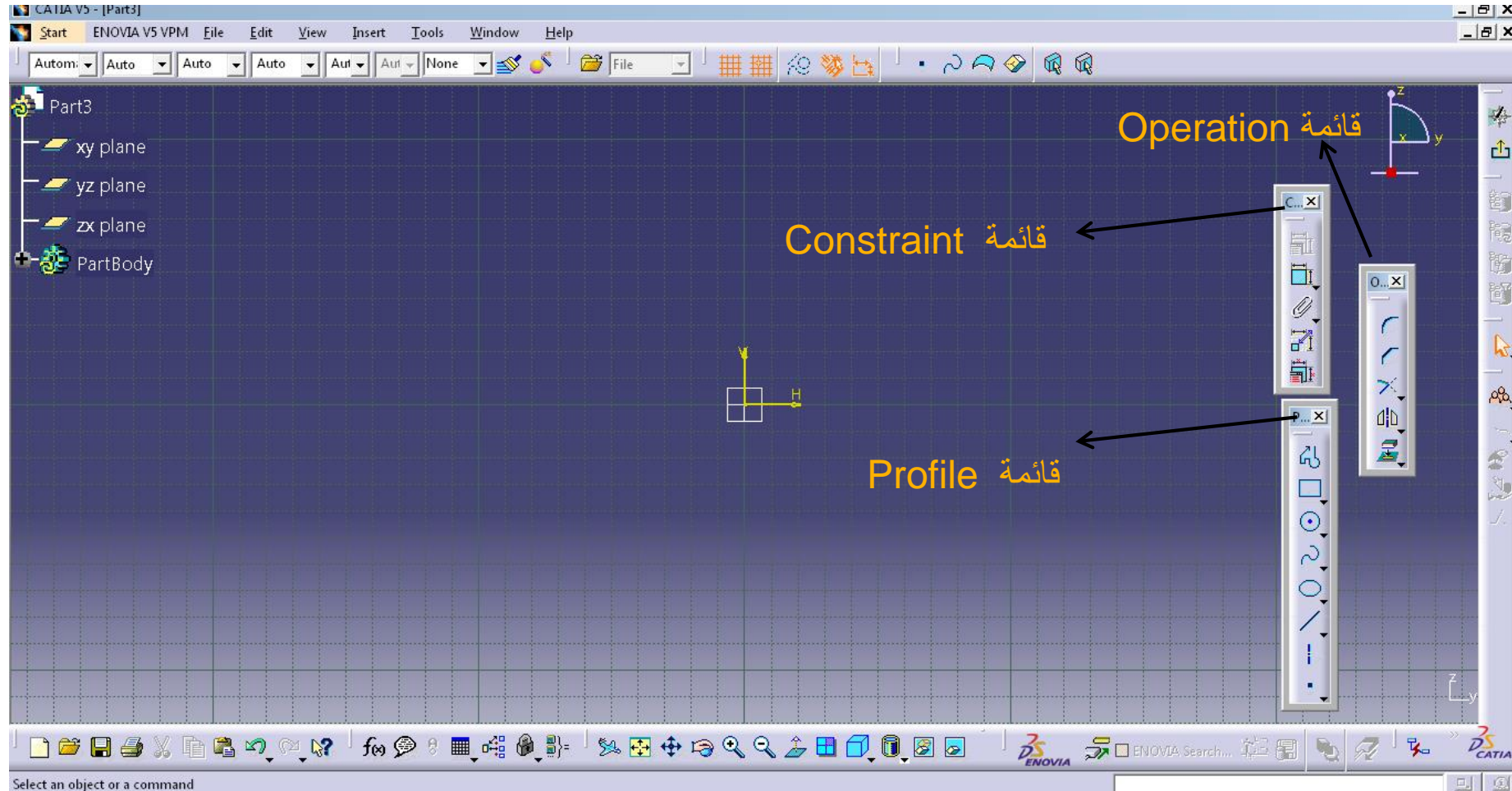


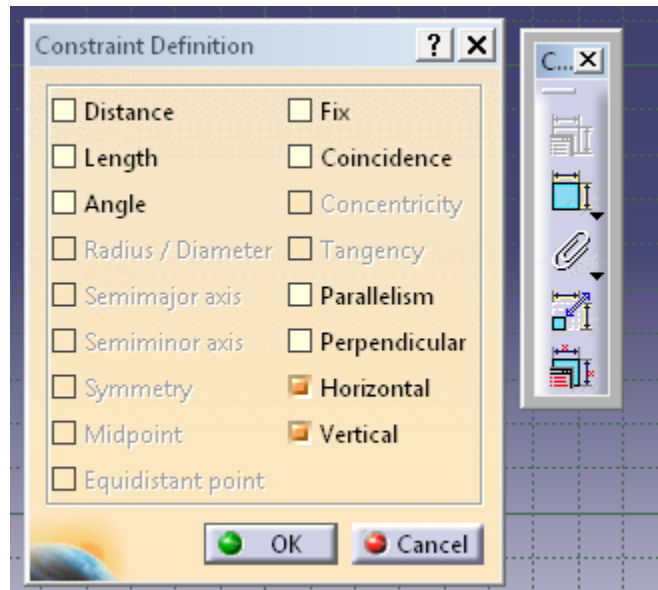
المحاضرة الثالثة

التصميم و التصنيع بمساعدة الحاسب



في البيئة ثنائية البعد سوف نهتم بثلاث قوائم رئيسية



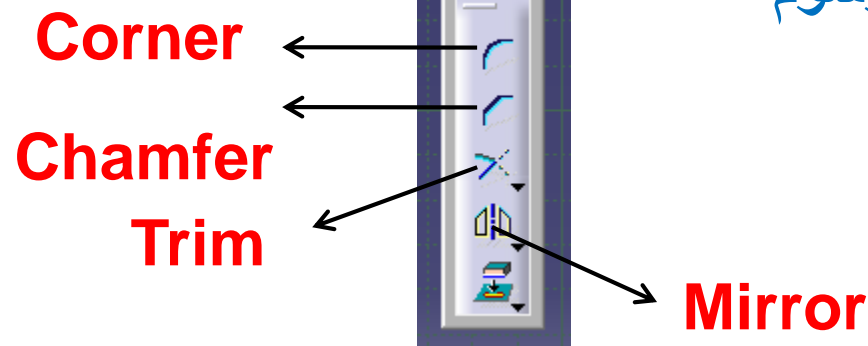


قائمة Constraint

هدف الأوامر الموجودة في هذه القائمة هو وضع القيود من أبعاد و زوايا و قيود توازي و تعامد و تماس على الشكل الهندسي

قائمة Operation

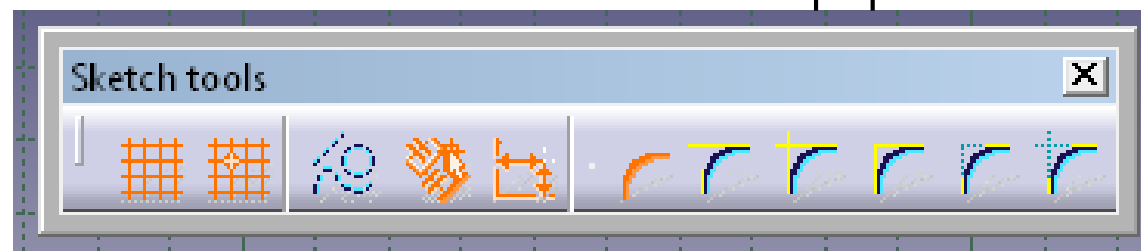
هدف الأوامر الموجودة في هذه القائمة هو إجراء تعديلات على الشكل الهندسي المرسوم



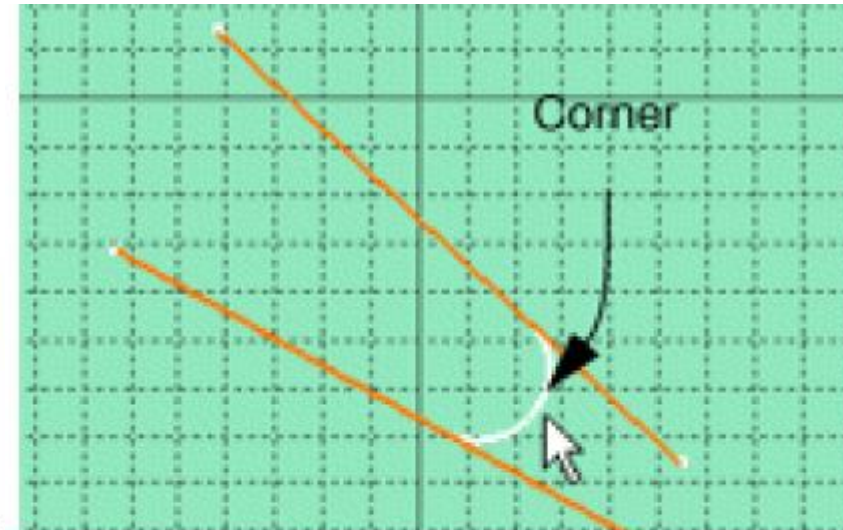
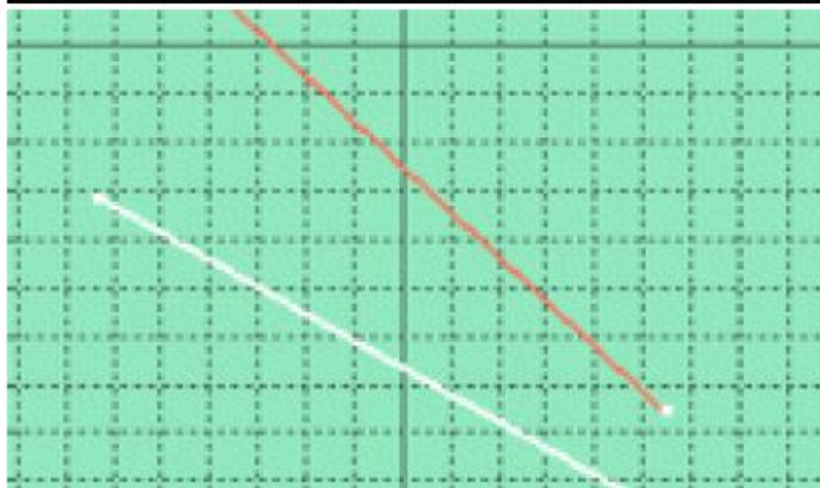
Creating Corners

طرق مختلفة لرسم الزاوية

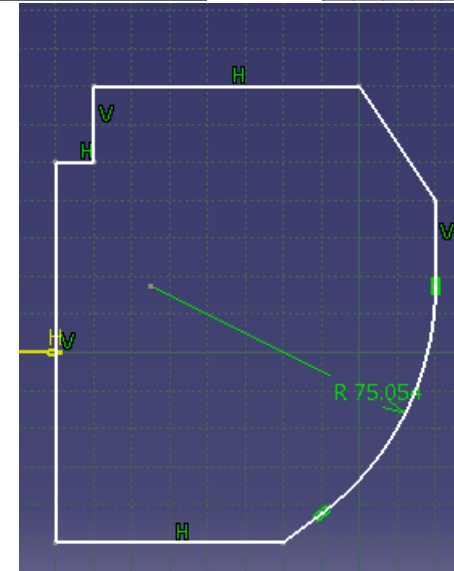
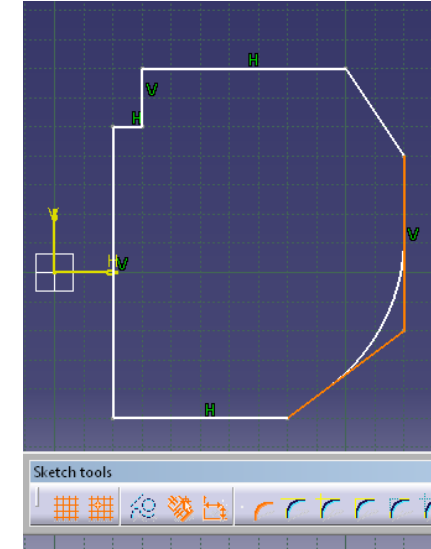
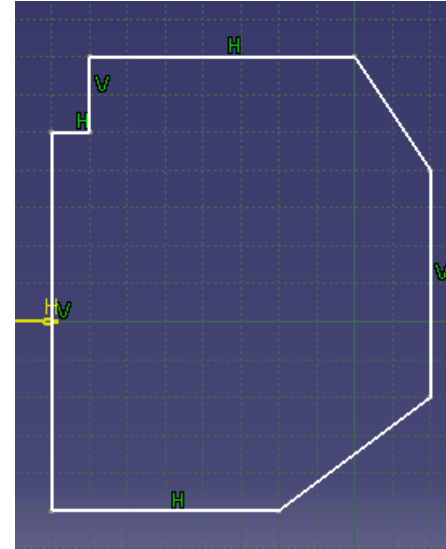
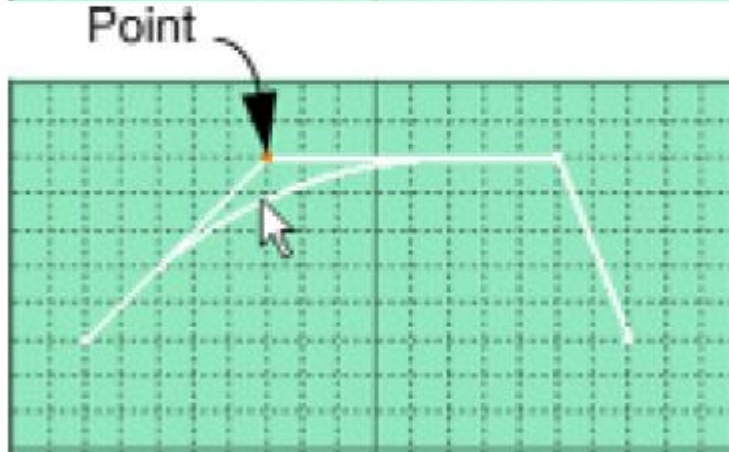
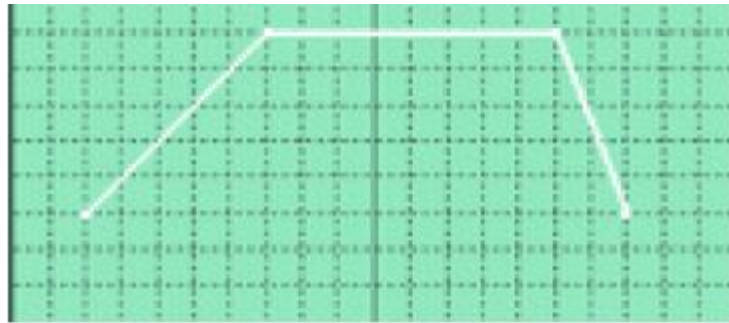
Corner



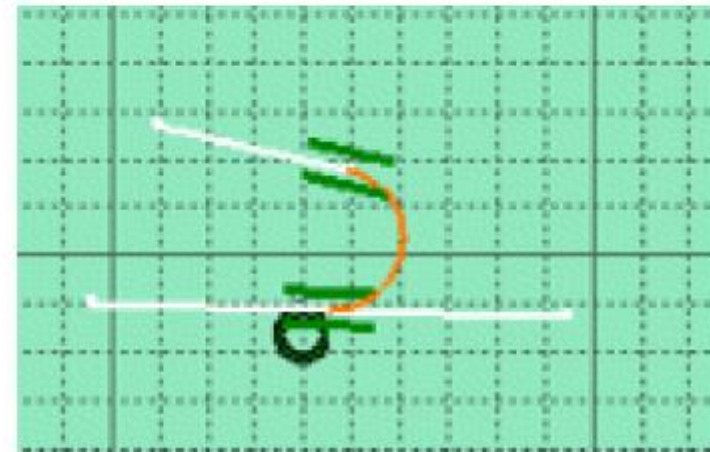
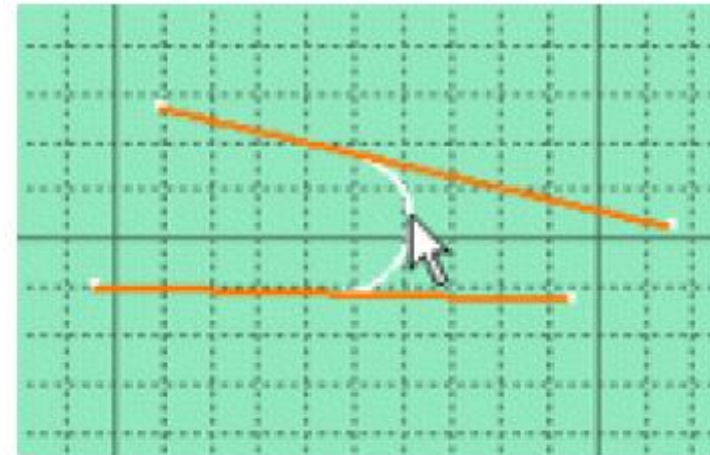
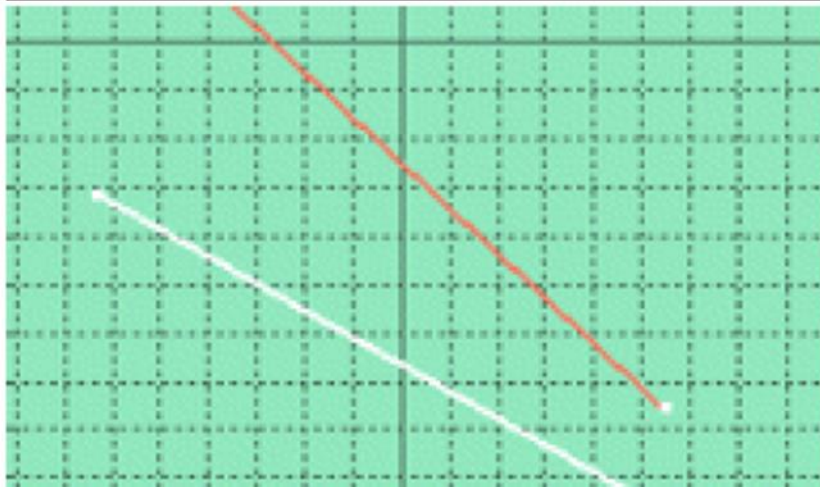
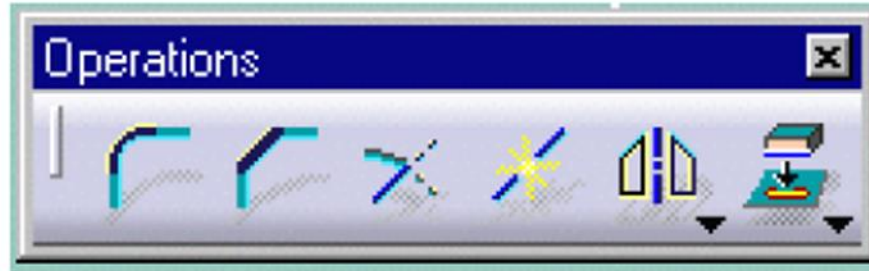
Creating Corners With Both Elements Trimmed



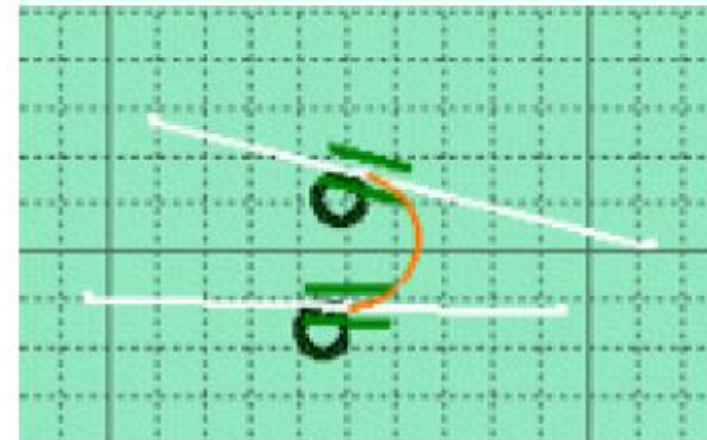
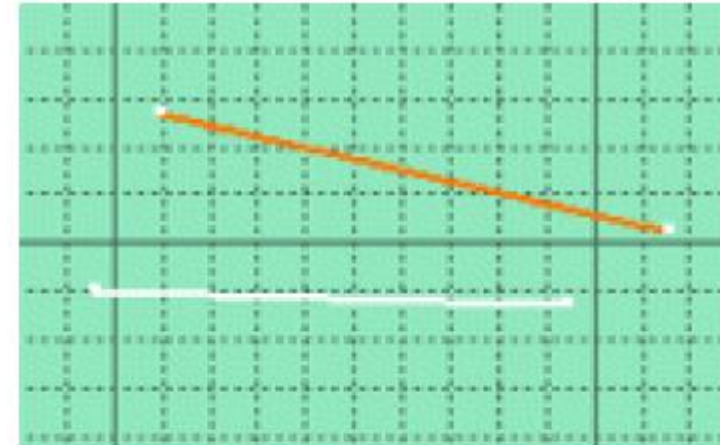
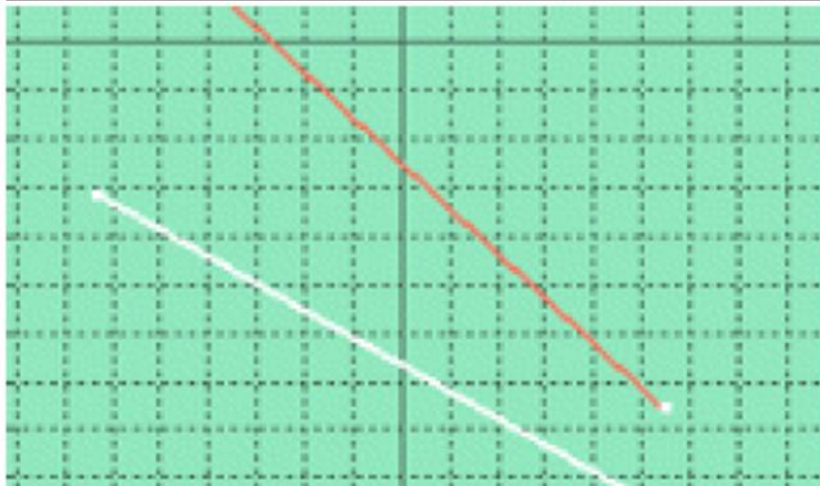
مثال اخر عن استخدام تعليمة Corner



Corners with One Element Trimmed

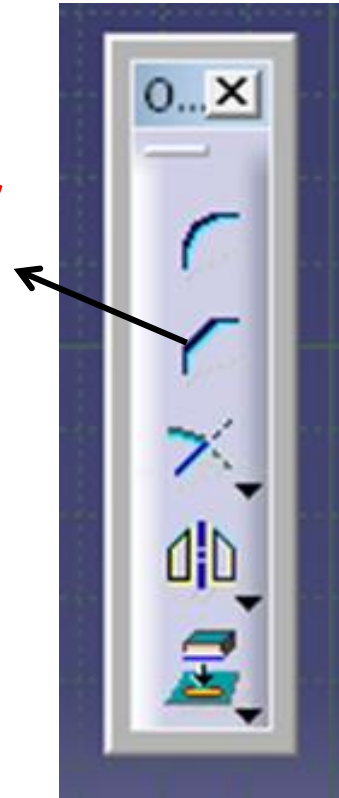


Creating Corners with No Elements Trimmed

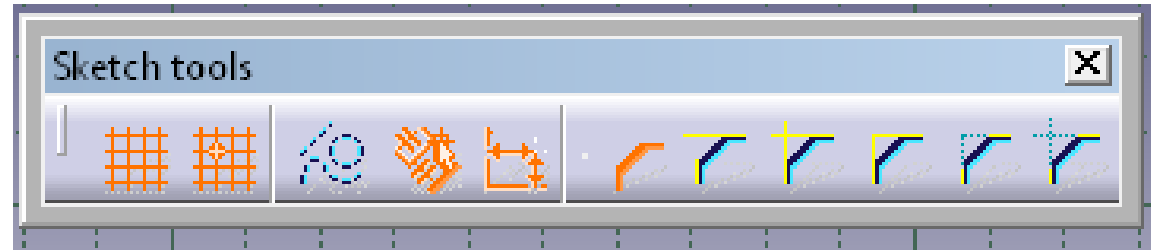


Creating Chamfer

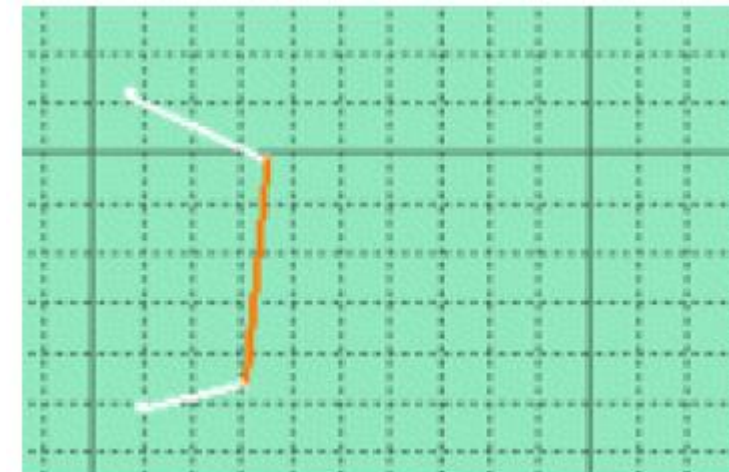
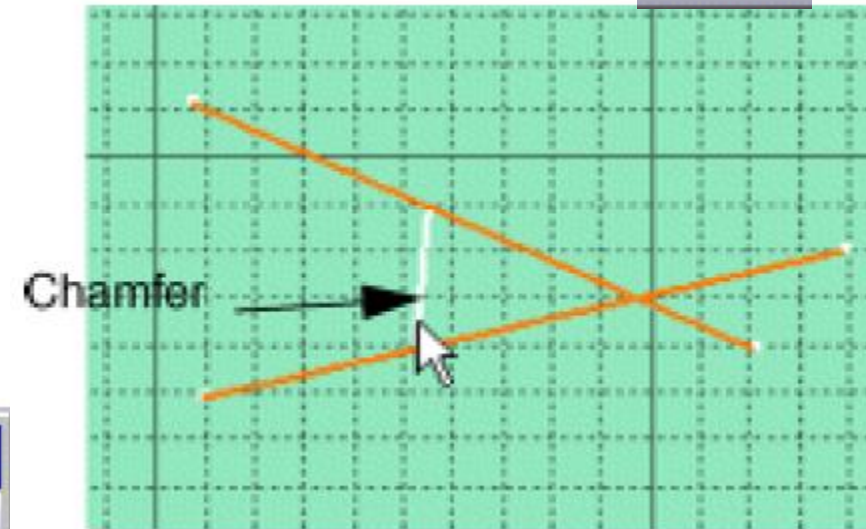
Chamfer



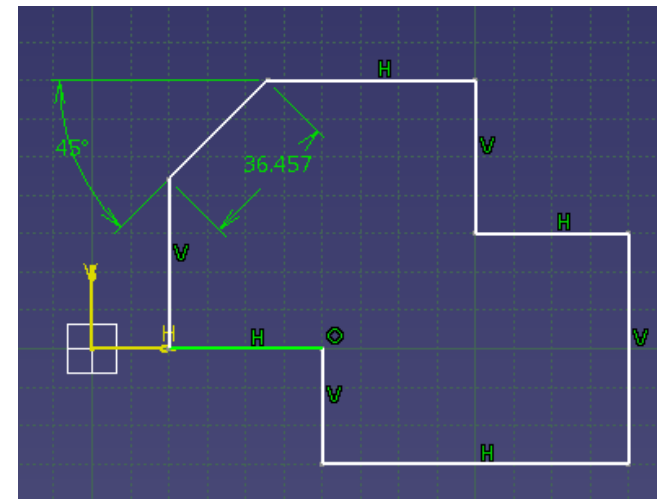
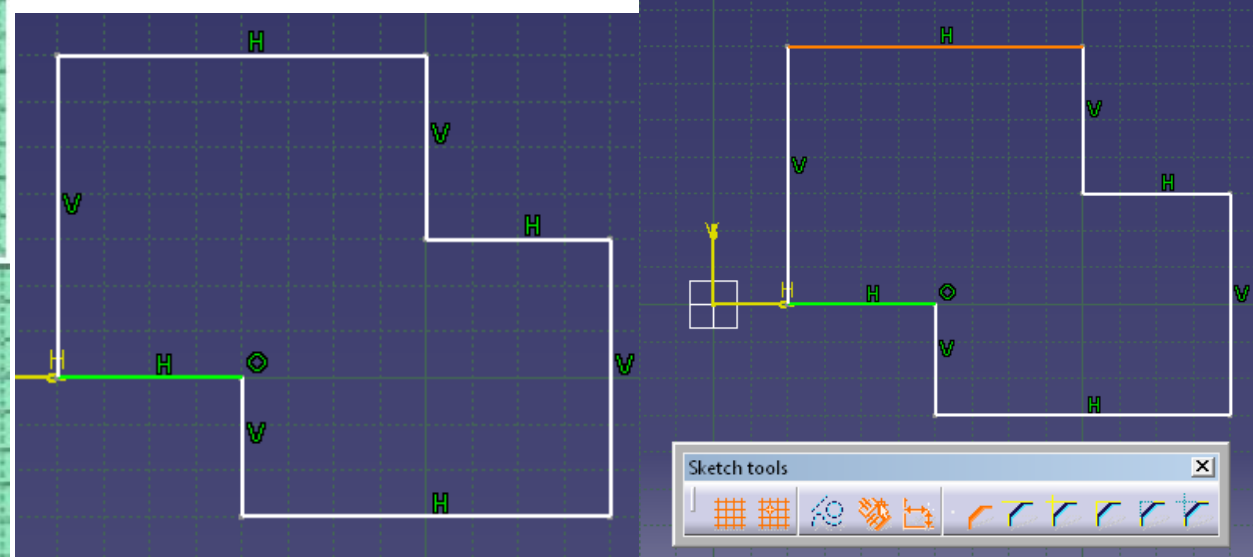
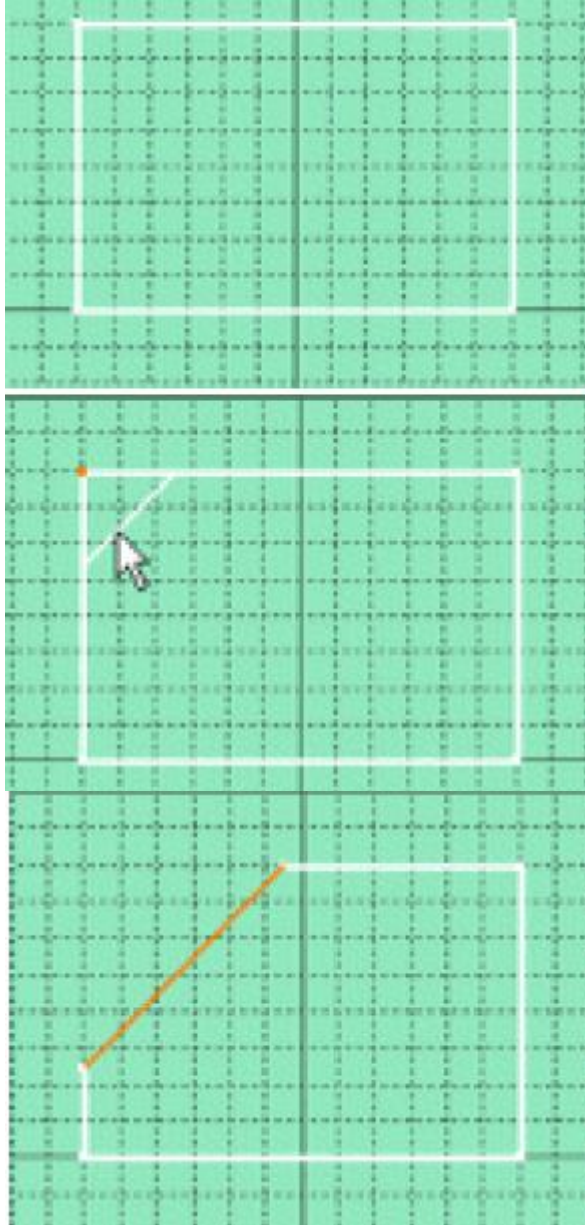
طرق مختلفة لرسم الشطفة



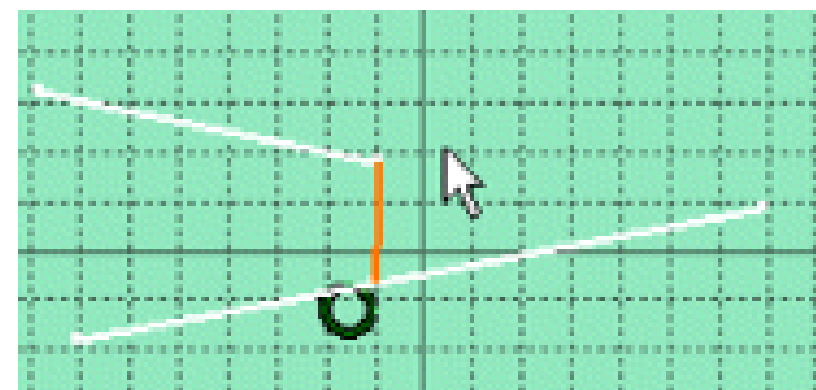
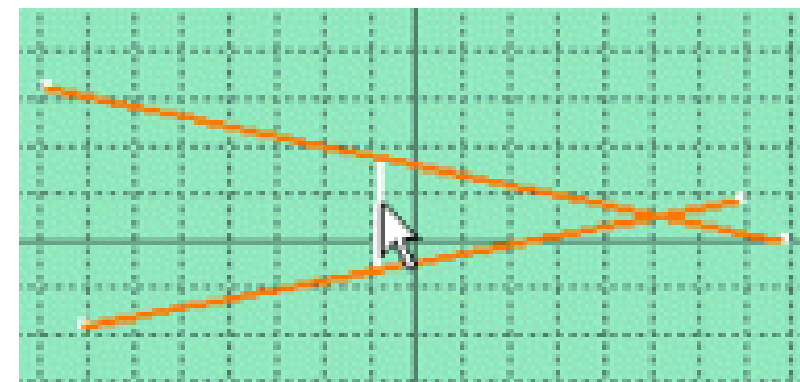
Creating Chamfers With Both Elements Trimmed



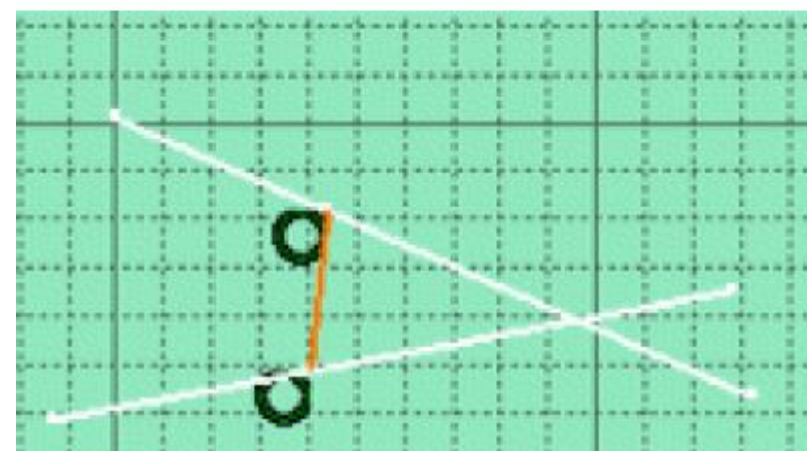
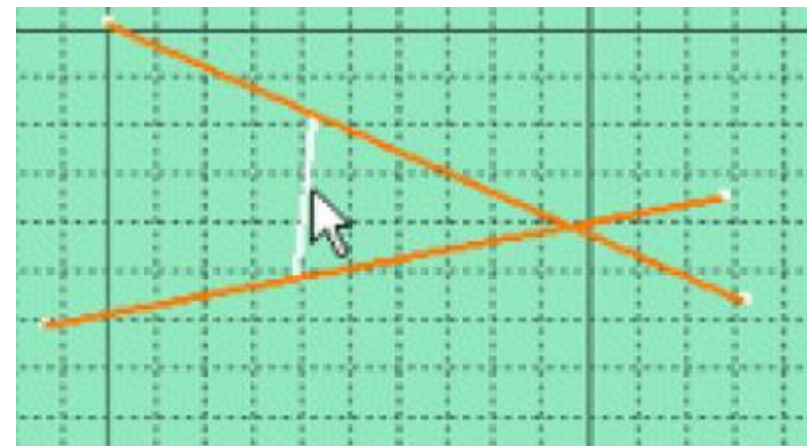
مثال اخر عن استخدام تعليمة Corner



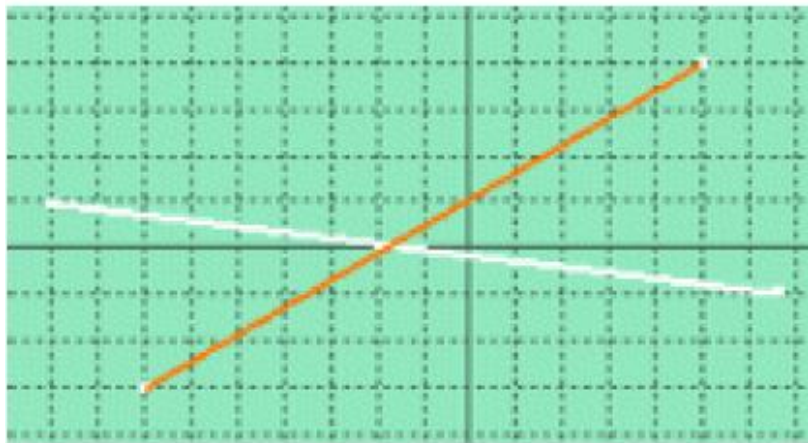
Chamfers with One Element Trimmed



Chamfers with No Elements Trimmed



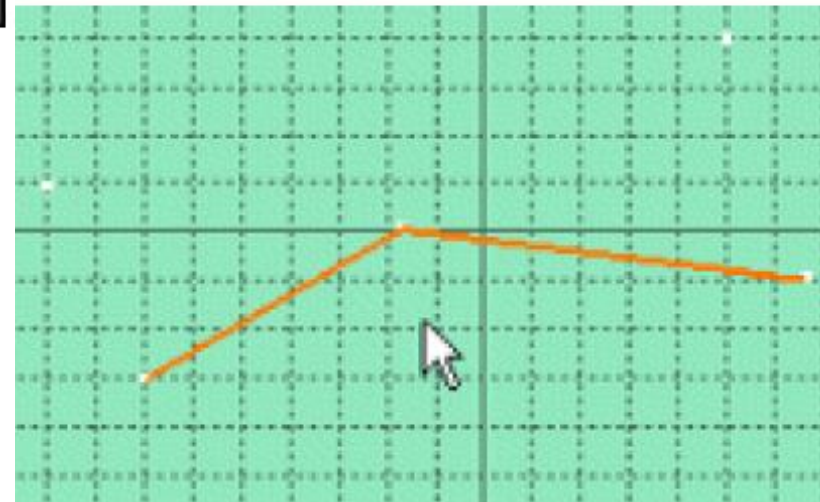
Trimming Elements



First example



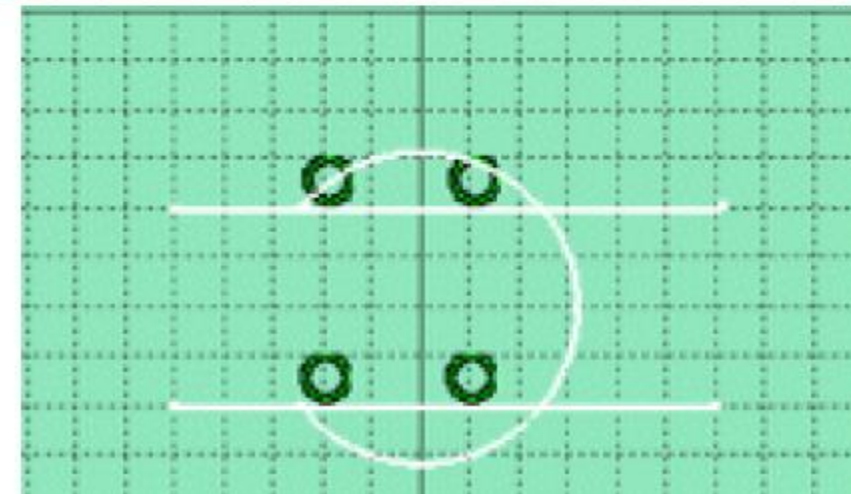
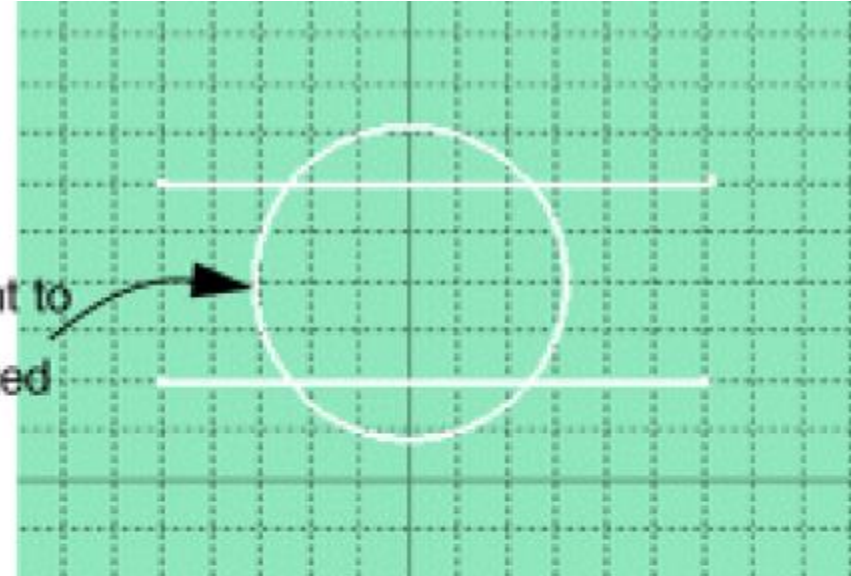
Second example



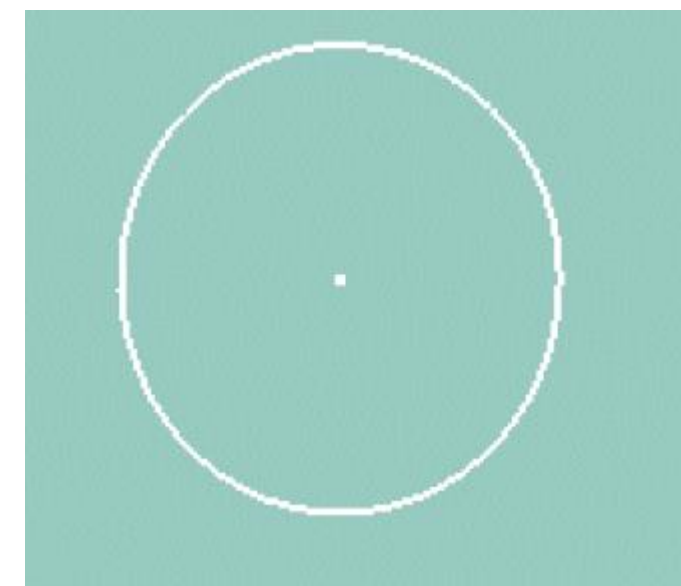
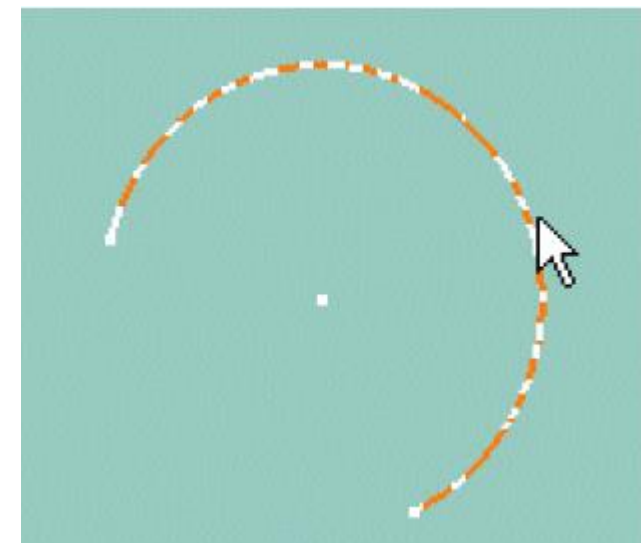
Breaking and Trimming



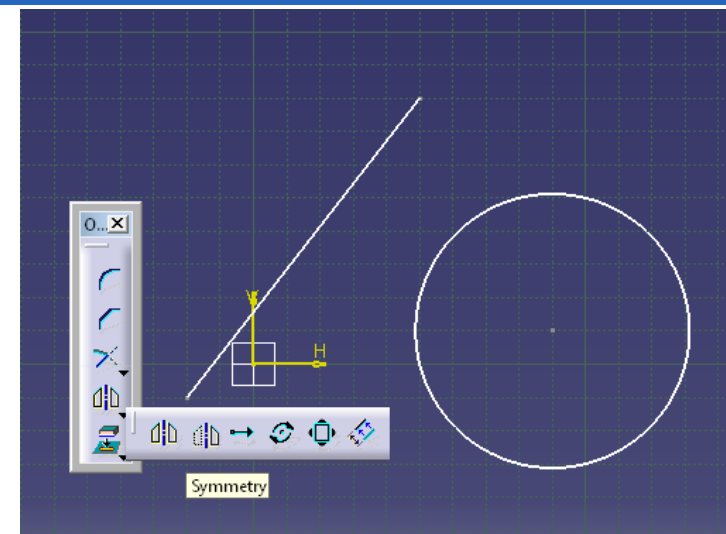
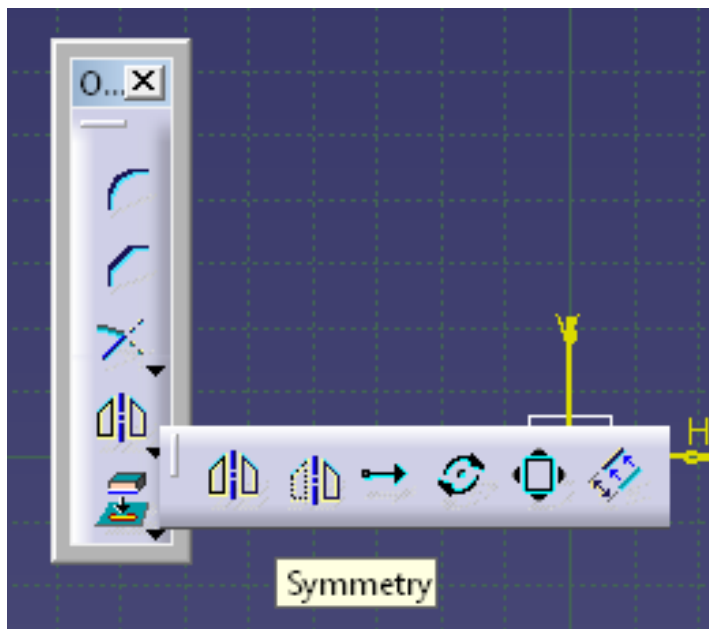
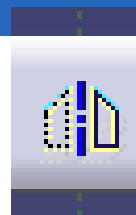
Segment to
be deleted



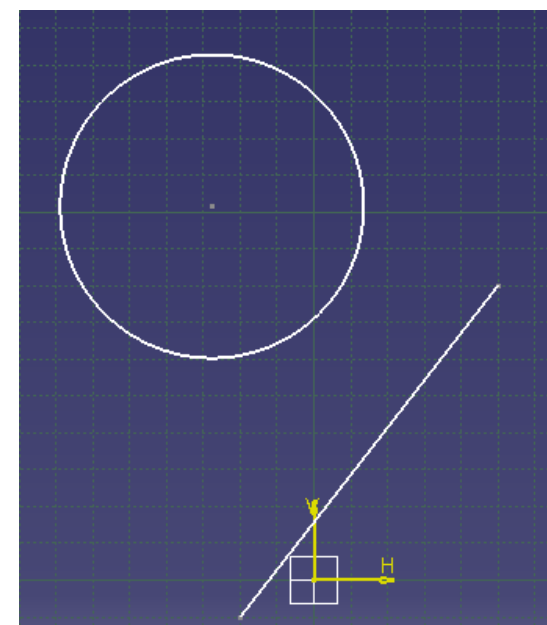
Closing Elements



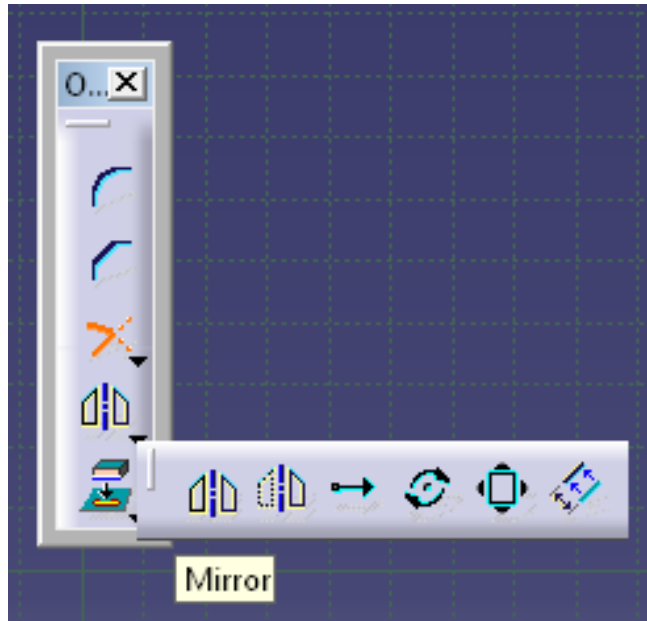
Creating Symmetrical Elements



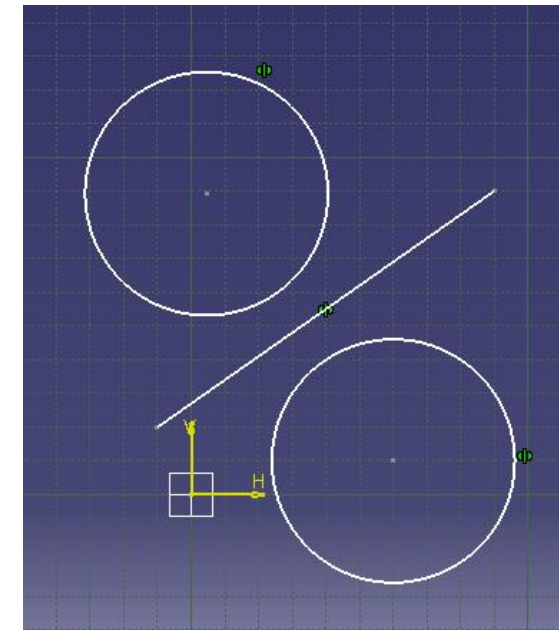
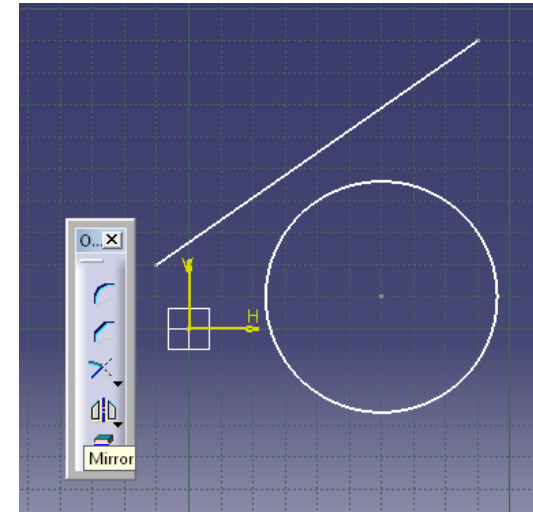
Symmetry



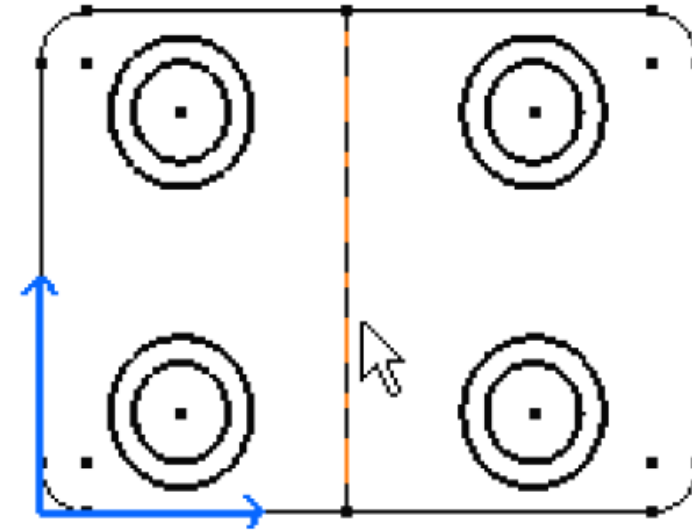
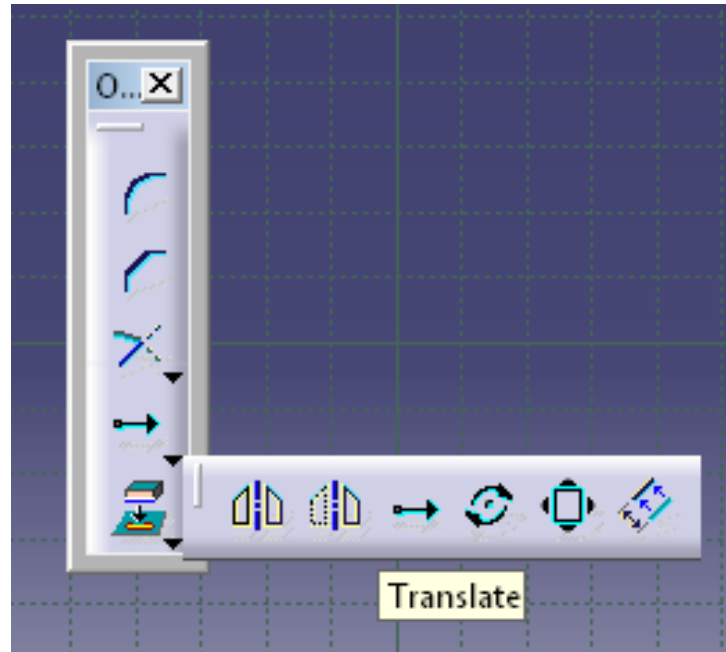
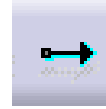
Creating Mirror Elements



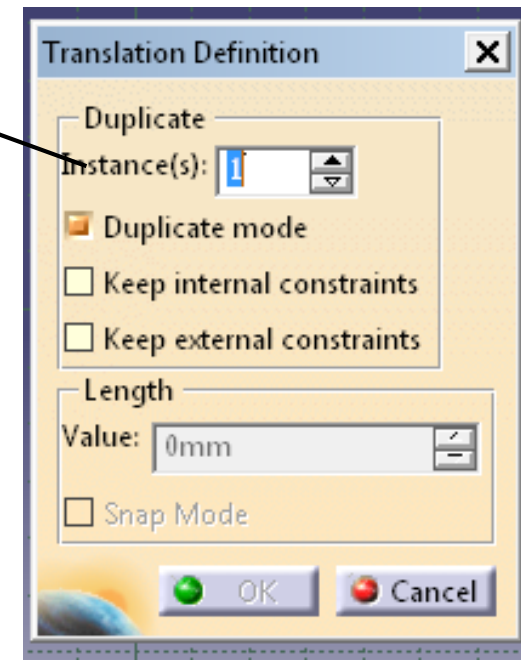
Mirror

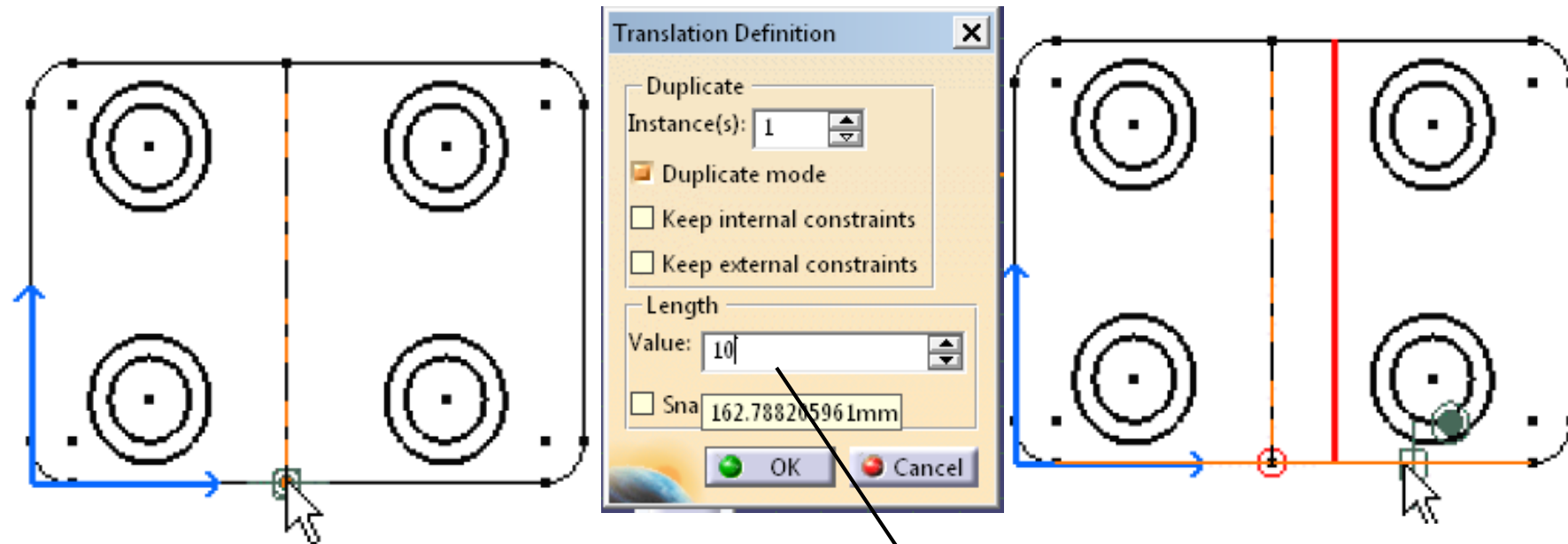
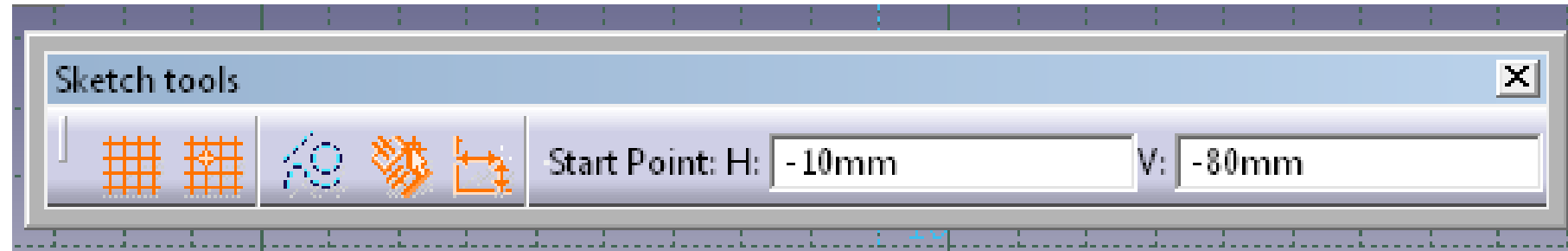


Translating Elements



عدد النسخ

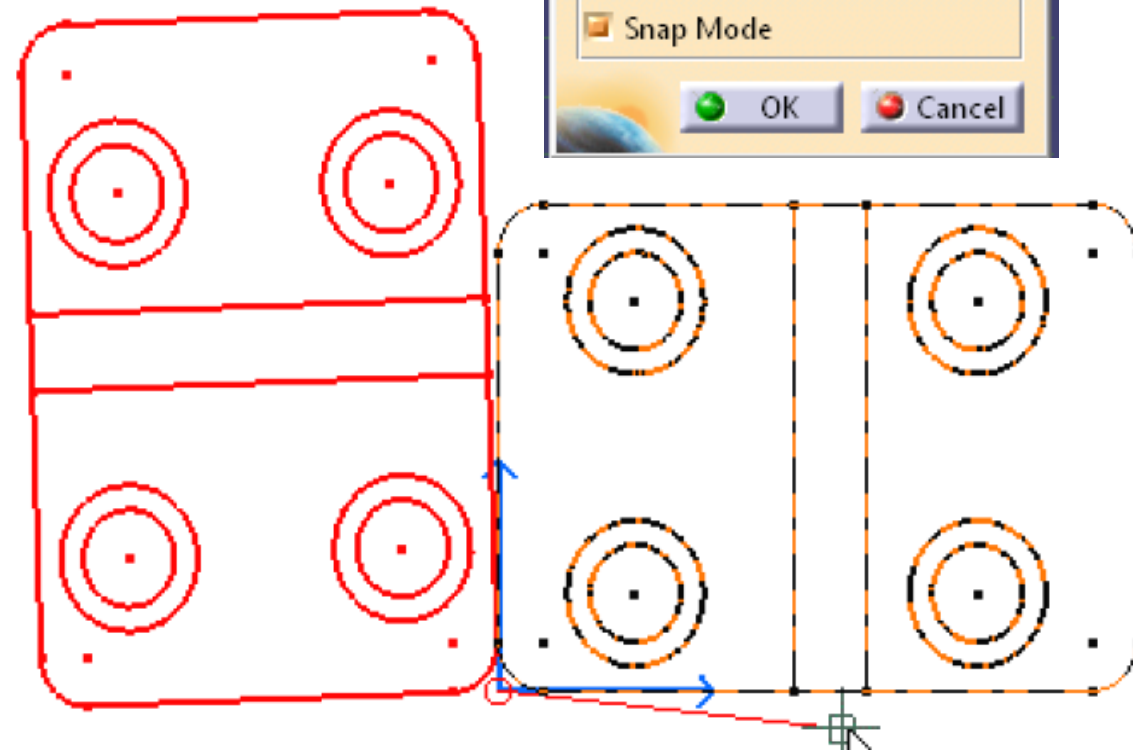
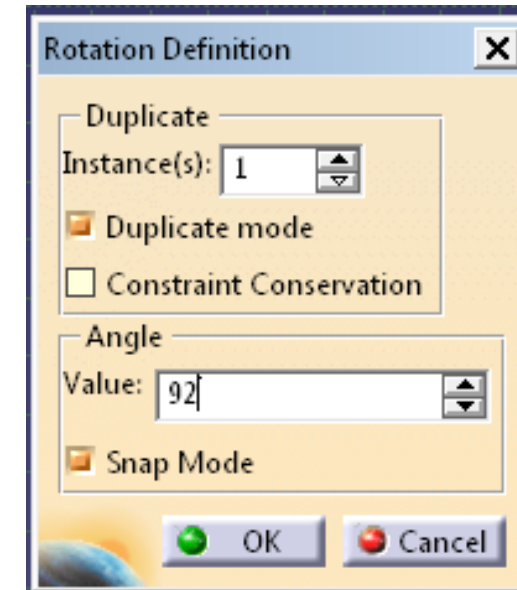
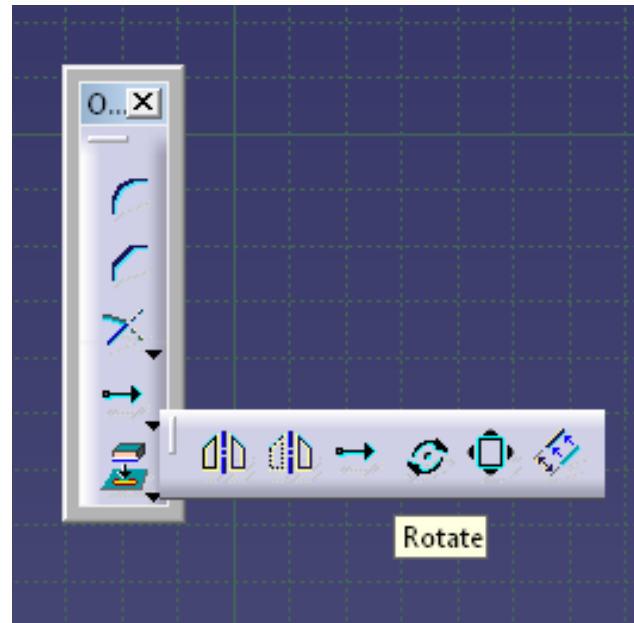




نقطة البداية

مسافة الانتقال

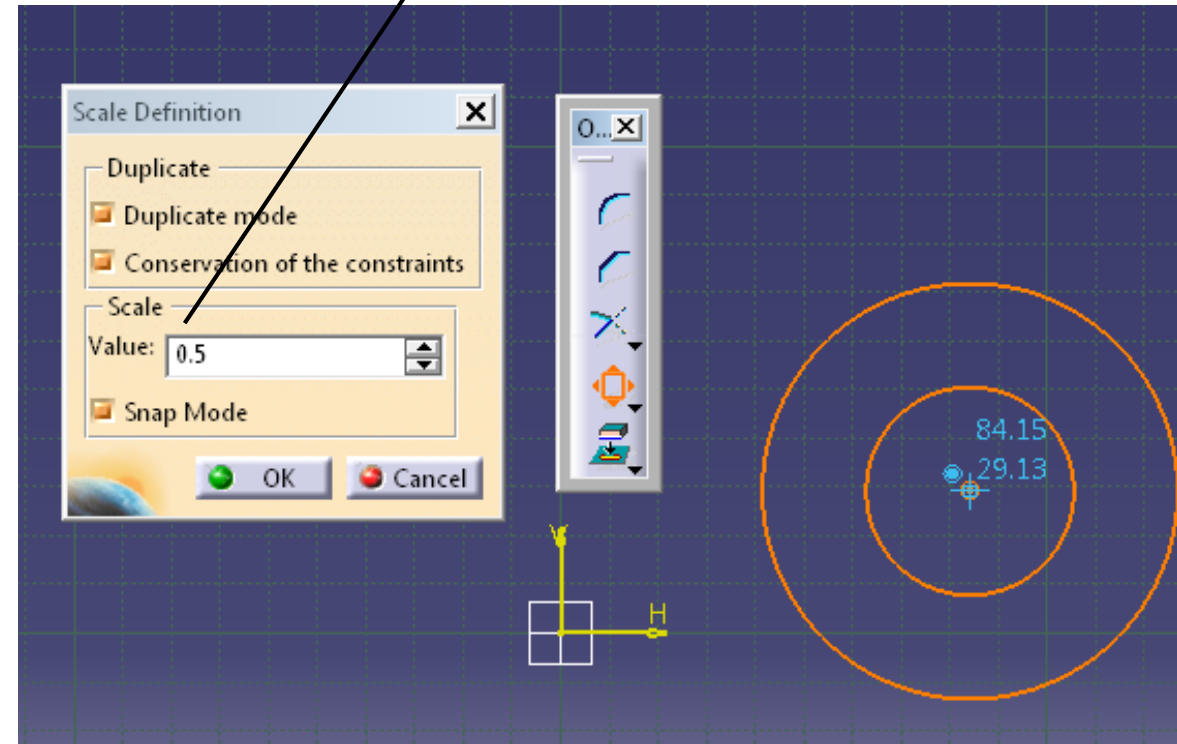
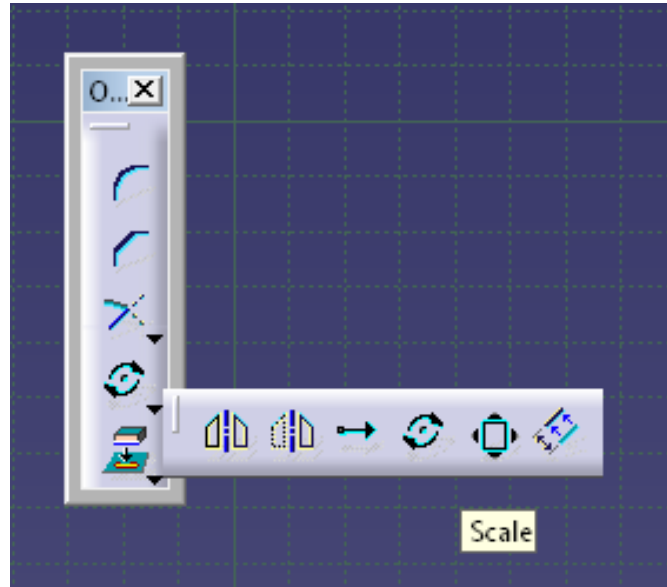
Rotating Elements



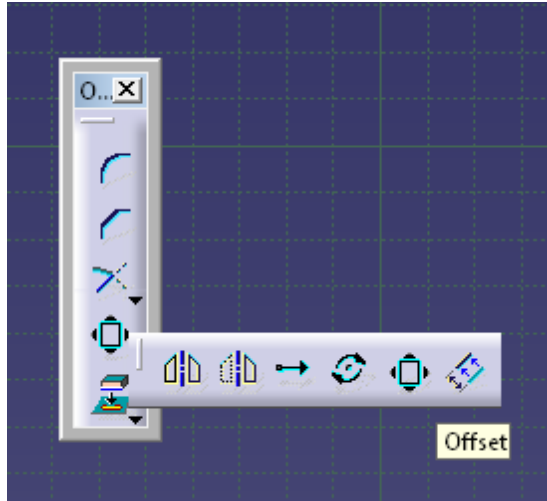
Scaling Elements



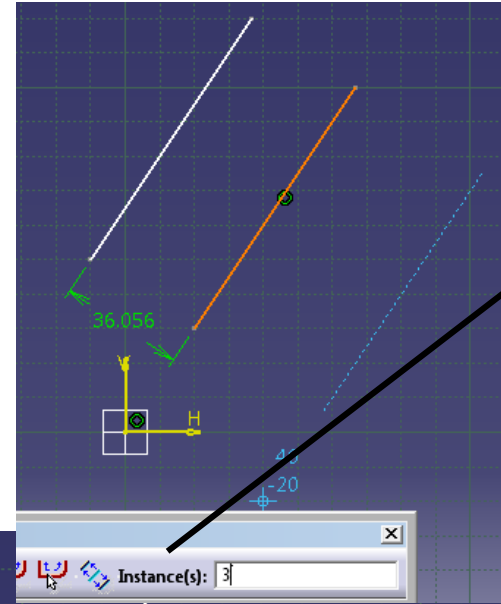
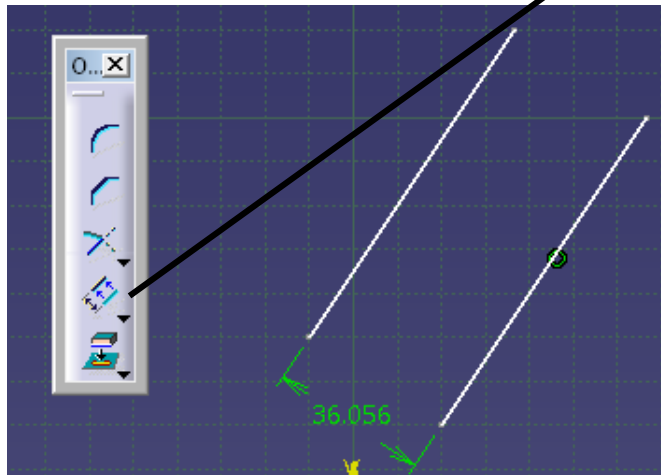
نسبة التكبير أو التصغير



Offsetting Elements



offset



عدد النسخ

