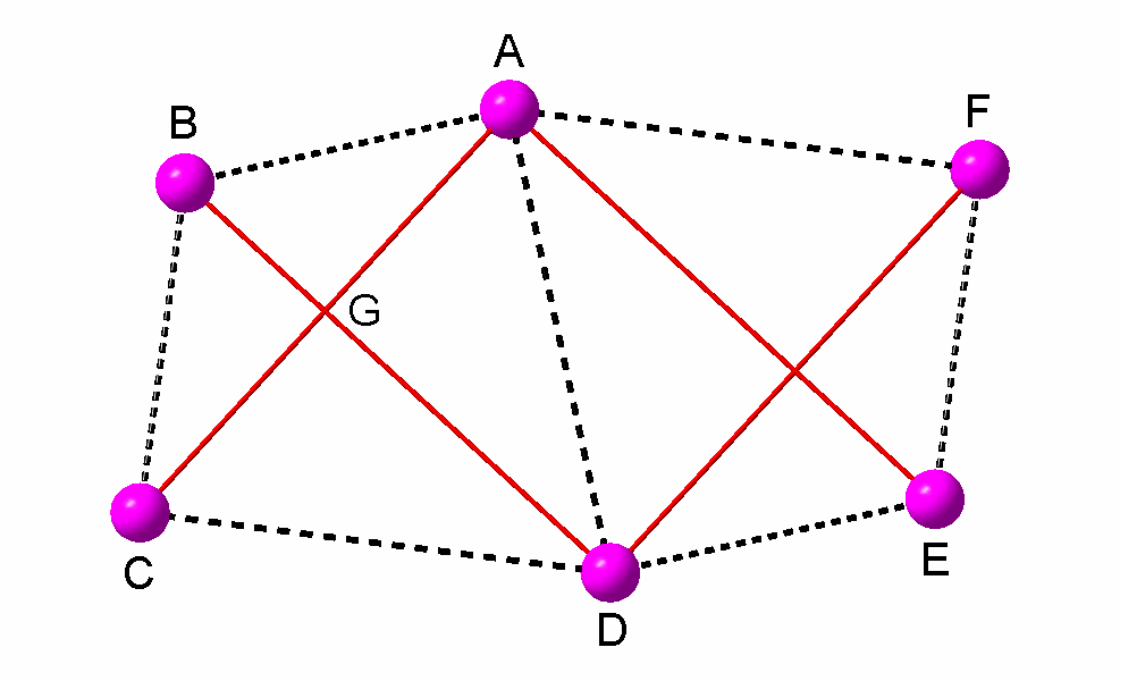

The area of this polygon can be calculated easily. The polygon consists of two triangles ABD and BCD. The triangles are identical as the lengths are identical (AB = BC, AD = CD and BD is common. The area of a triangle is defined:

Area = 1/2 * height * base.

For example, in triangle ABD, the base is the diagonal BD and the height is AG. The formula for the area of triangle ABD is:

Area (ABD) = 1/2 * BD * AG.

Similiarly, the area of triangle BCD is

Area (BCD) = 1/2 * BD * GC

Hence, the area of the polygon ABCD is

Area (ABCD) = Area (ABD) + Area (BCD)

= 1/2 * BD * (AG + GC)

But AG + GC = AC

Hence

Area (ABCD) = 1/2 * BD * AC

Hence, the area of the polygon is half of the product of the two diagonals AC and BD, given in Angstroms.