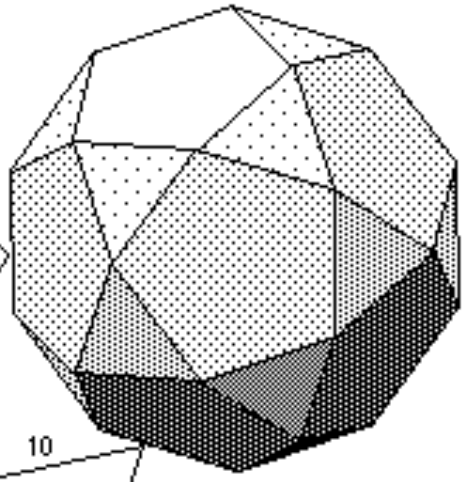
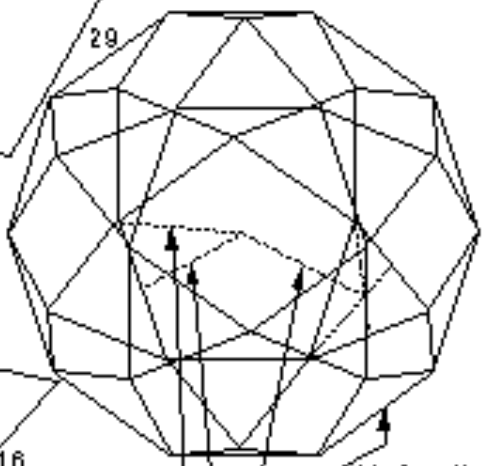
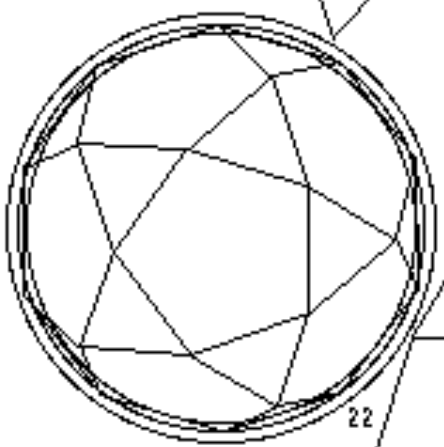
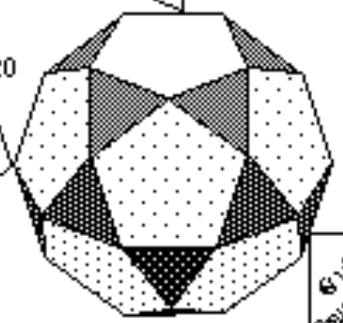






side length
insphere radius
intersphere radius
circumsphere radius

The icosidodecahedron has the following relative dimensions (this allows scaling to any size):
circumsphere radius
$= (1+\sqrt{5})/(\sqrt{(5+2\sqrt{5})})$
≈ 1.0514622242
intersphere radius = 1
insphere radius
$= (5+3\sqrt{5})/(4\sqrt{(5+2\sqrt{5})})$
$\approx .9510565163$
side length
$= 2/(\sqrt{(5+2\sqrt{5})})$
$\approx .6498393925$
The circumsphere radius to side length ratio is the golden ratio $= \phi = (1+\sqrt{5})/2$
≈ 1.6180339888



Icosidodecahedron Fold-Up Pattern

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