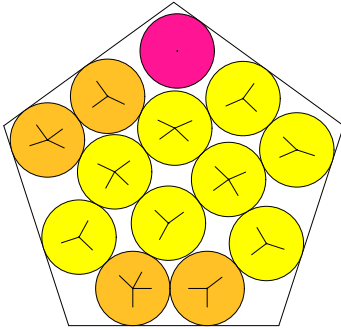
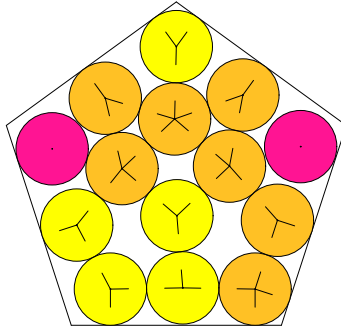


N = 13
13 circles in a pentagon



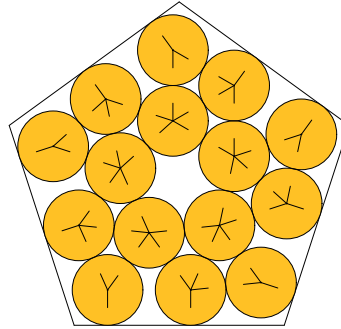
radius = 0.207999994722 density = 0.743144963272
ratio = 4.807692429679 contacts = 25

N = 14
14 circles in a pentagon



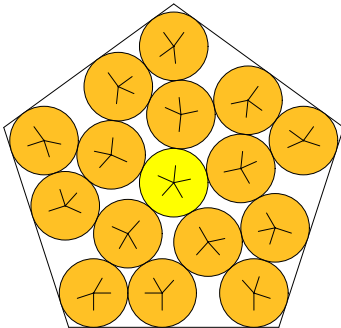
radius = 0.202386816023 density = 0.75769772154
ratio = 4.941033312602 contacts = 25

N = 15
15 circles in a pentagon



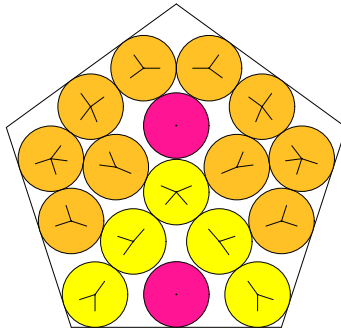
radius = 0.197735768366 density = 0.774934987330
ratio = 5.057253972119 contacts = 35

N = 16
16 circles in a pentagon



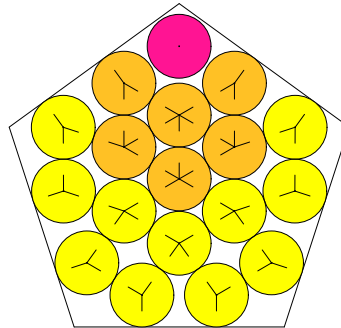
radius = 0.191785609135 density = 0.77598749710
ratio = 5.214155558972 contacts = 40

N = 17
17 circles in a pentagon



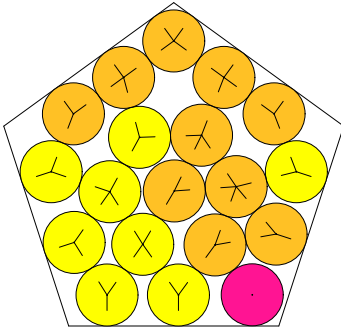
radius = 0.183126736787 density = 0.753279195582
ratio = 5.460699063097 contacts = 31

N = 18
18 circles in a pentagon



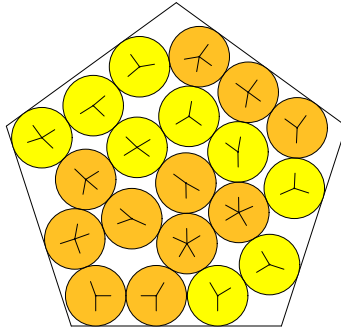
radius = 0.178473321196 density = 0.757569801809
ratio = 5.603078338521 contacts = 35

N = 19
19 circles in a pentagon



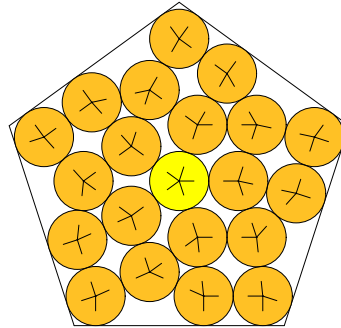
radius = 0.173441904330 density = 0.755205607498
ratio = 5.765619351700 contacts = 37

N = 20
20 circles in a pentagon



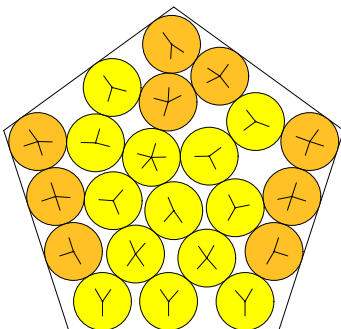
radius = 0.169279411749 density = 0.757254419213
ratio = 5.907392929051 contacts = 41

N = 21
21 circles in a pentagon



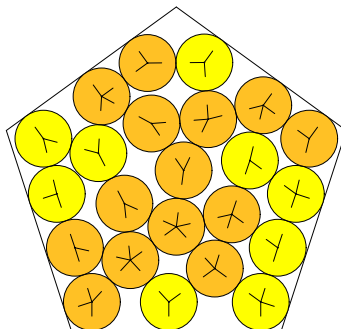
radius = 0.16540018640 density = 0.759127889229
ratio = 6.045802322242 contacts = 50

N = 22
22 circles in a pentagon



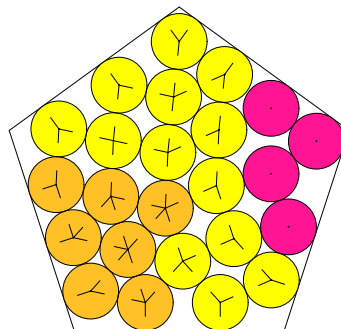
radius = 0.161673301786 density = 0.759806203277
ratio = 6.185313352847 contacts = 45

N = 23
23 circles in a pentagon



radius = 0.158923367389 density = 0.767550381308
ratio = 6.292340871134 contacts = 47

N = 24
24 circles in a pentagon



radius = 0.156027298450 density = 0.771997613946
ratio = 6.409114875319 contacts = 41