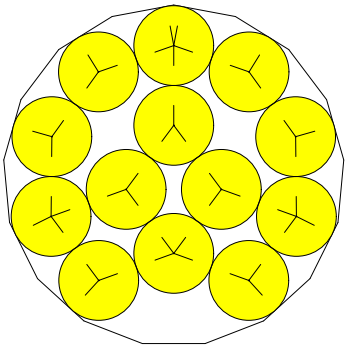
N = 13

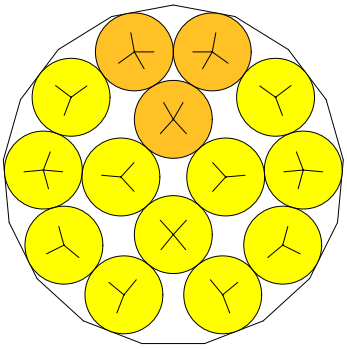
13 circles in a heptadecagon



radius = 0.233629941745 density = 0.725994722900
ratio = 4.280273292595 contacts = 27

N = 14

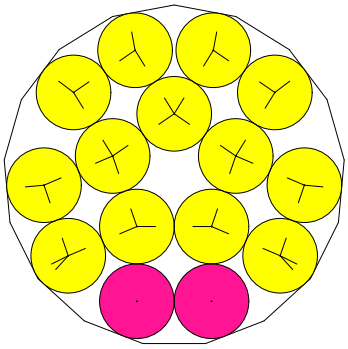
14 circles in a heptadecagon



radius = 0.228083724171 density = 0.745160348301
ratio = 4.384354927707 contacts = 29

N = 15

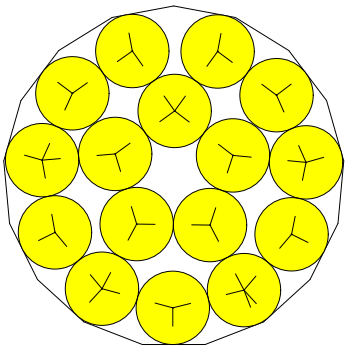
15 circles in a heptadecagon



radius = 0.218502689075 density = 0.732719823749
ratio = 4.576602714748 contacts = 27

N = 16

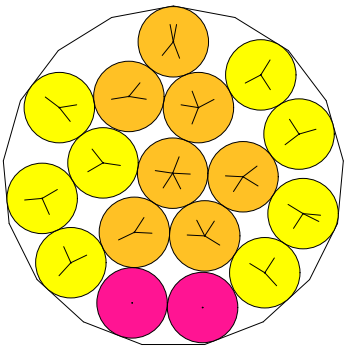
16 circles in a heptadecagon



radius = 0.214846111817 density = 0.755628082319
ratio = 4.654494286838 contacts = 33

N = 17

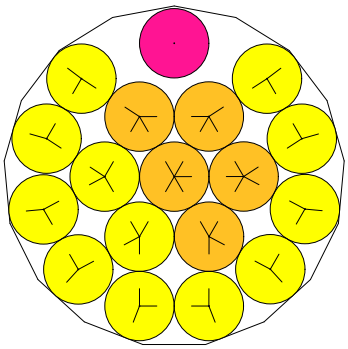
17 circles in a heptadecagon



radius = 0.206295840269 density = 0.740223678942
ratio = 4.847407483817 contacts = 31

N = 18

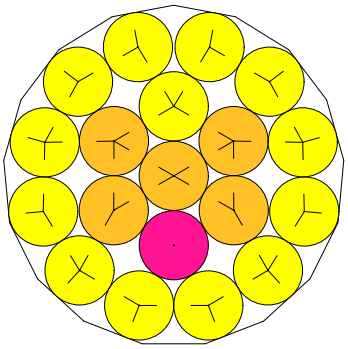
18 circles in a heptadecagon



radius = 0.203176655691 density = 0.760244401007
ratio = 4.921825278589 contacts = 35

N = 19

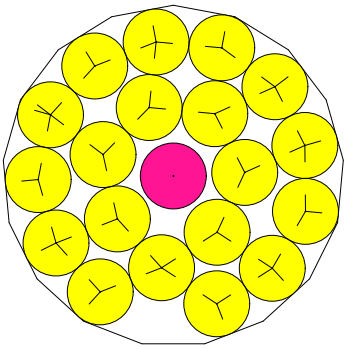
19 circles in a heptadecagon



radius = 0.202580564260 density = 0.797778382713
ratio = 4.936307703823 contacts = 37

N = 20

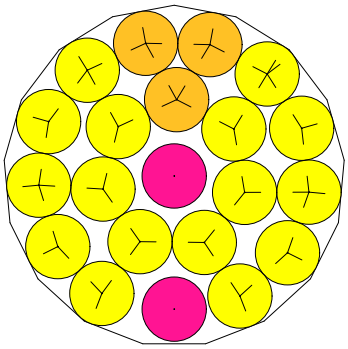
20 circles in a heptadecagon



radius = 0.192996131978 density = 0.762184856733
ratio = 5.181450994645 contacts = 39

N = 21

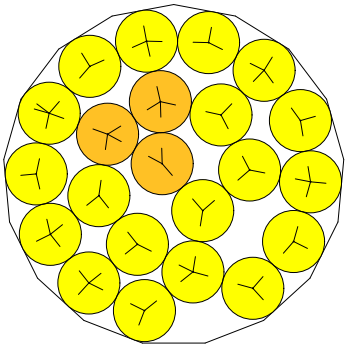
21 circles in a heptadecagon



radius = 0.188333785043 density = 0.762094582622
ratio = 5.309721778134 contacts = 39

N = 22

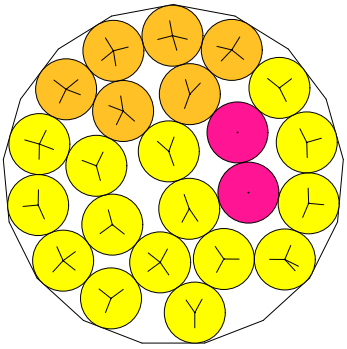
22 circles in a heptadecagon



radius = 0.181721979977 density = 0.743311259126
ratio = 5.502911646290 contacts = 45

N = 23

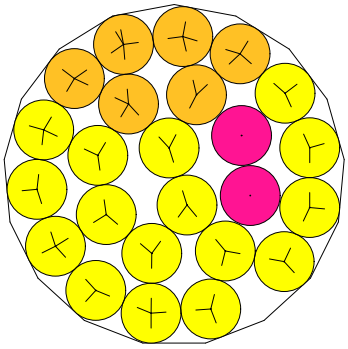
23 circles in a heptadecagon



radius = 0.178546501921 density = 0.750176815696
ratio = 5.600781808902 contacts = 43

N = 24

24 circles in a heptadecagon



radius = 0.175169497155 density = 0.753461938326
ratio = 5.708756468670 contacts = 45