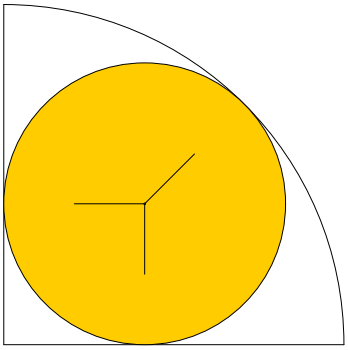
N = 1

1 circle in a circular quadrant



radius = 0.414213562373 density = 0.686291501015
ratio = 2.414213562373 contacts = 3

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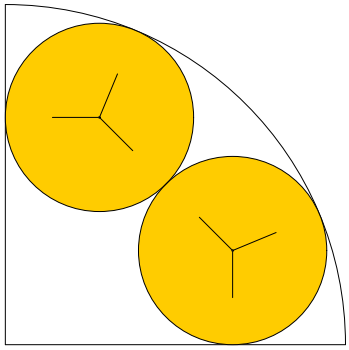
N = 2

2 circles in a circular quadrant



radius = 0.276768653914 density = 0.612807102316
ratio = 3.613125929753 contacts = 5

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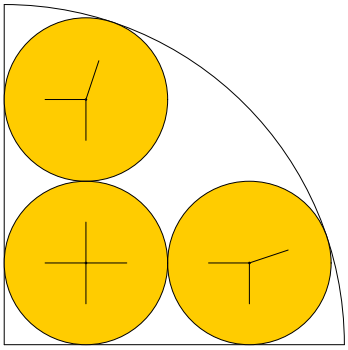
N = 3

3 circles in a circular quadrant



radius = 0.240253073352 density = 0.692658471061
ratio = 4.162277660168 contacts = 8

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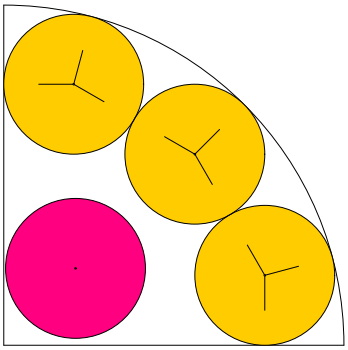
N = 4

4 circles in a circular quadrant



radius = 0.205604646760 density = 0.676372332306
ratio = 4.863703305156 contacts = 7

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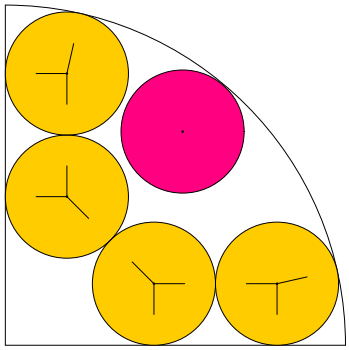
N = 5

5 circles in a circular quadrant



radius = 0.180960531654 density = 0.654934280329
ratio = 5.526066876907 contacts = 9

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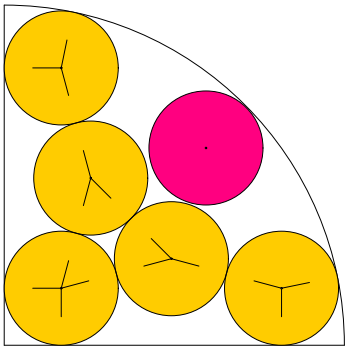
N = 6

6 circles in a circular quadrant



radius = 0.167632184593 density = 0.674413183472
ratio = 5.965441555450 contacts = 11

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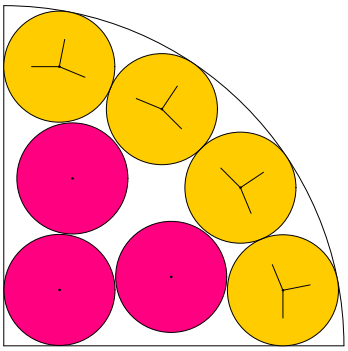
N = 7

7 circles in a circular quadrant



radius = 0.163243161142 density = 0.746153230470
ratio = 6.125830895483 contacts = 9

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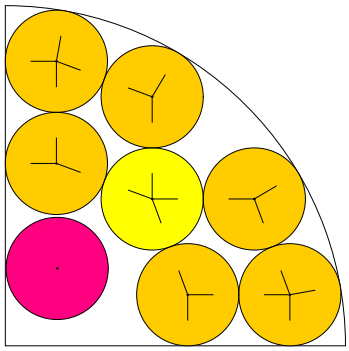
N = 8

8 circles in a circular quadrant



radius = 0.150154807085 density = 0.721486914901
ratio = 6.659793445278 contacts = 16

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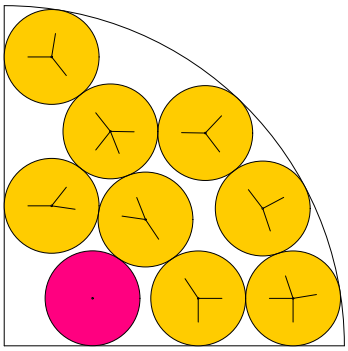
N = 9

9 circles in a circular quadrant



radius = 0.139429107850 density = 0.699857140175
ratio = 7.172103554391 contacts = 17

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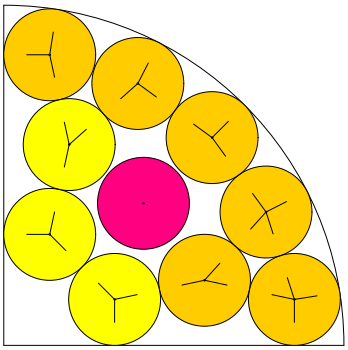
N = 10

10 circles in a circular quadrant



radius = 0.135072985268 density = 0.729788453972
ratio = 7.403404892646 contacts = 19

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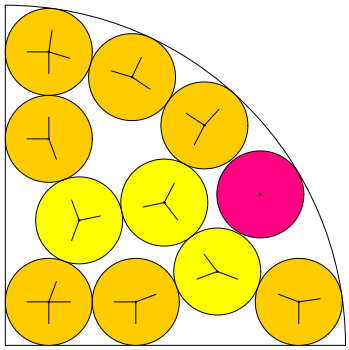
N = 11

11 circles in a circular quadrant



radius = 0.127840596126 density = 0.719101592784
ratio = 7.822241371711 contacts = 21

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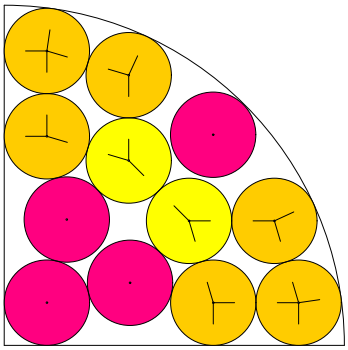
N = 12

12 circles in a circular quadrant



radius = 0.125441937333 density = 0.755312622807
ratio = 7.971815656409 contacts = 17

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