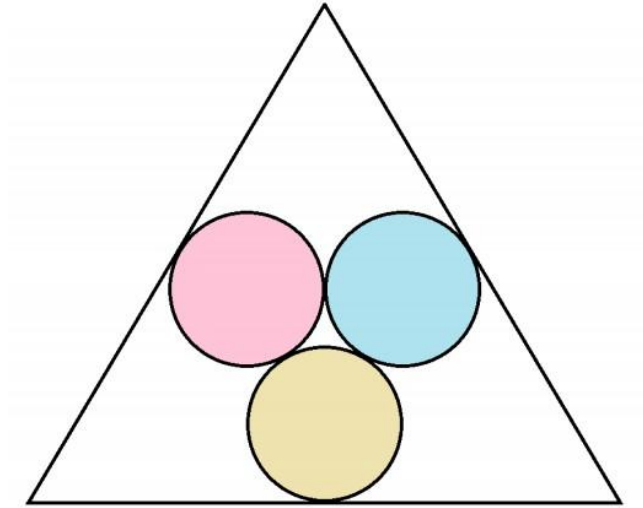


Three circles inside an equilateral triangle

Three circles, may or may not have the same radii, are placed inside an equilateral triangle with each side of length $2a$. The circles can touch the sides of the triangle. Find the maximum of the sum of the area of these three circles.



Not the solution, hehe!