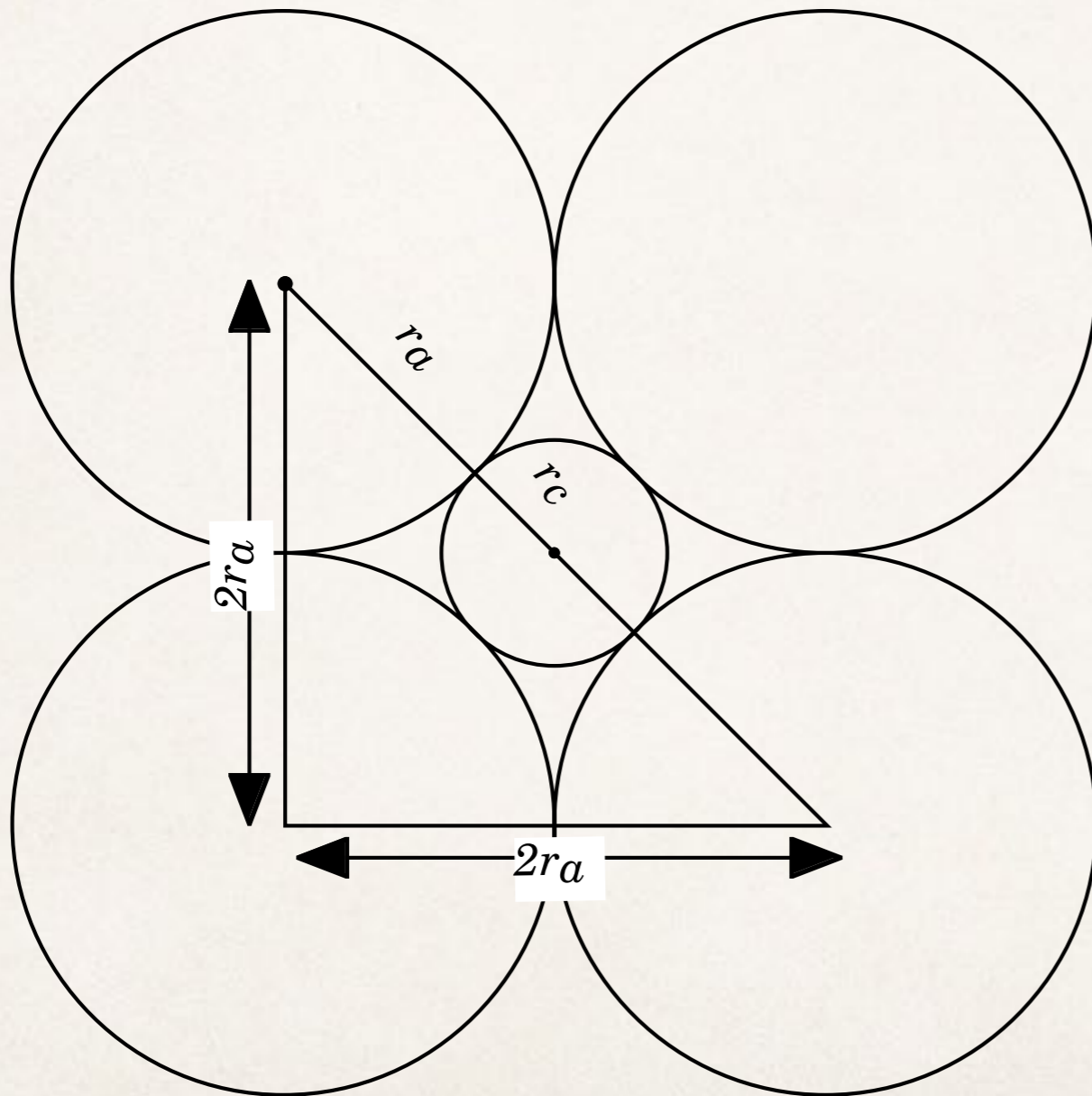


# Radius ratio

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By Pythagoras's theorem

$$4(r_a + r_c)^2 = 4r_a^2 + 4r_a^2$$

$$r_a + r_c = \sqrt{2} r_a$$

$$r_c / r_a = \sqrt{2} - 1$$