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Quiz 11, Attempt 1

Let X_1, X_2, X_3 be independent identically distrubuted normal N(0, 6) random variables. Find c such that

$$P\{X_1^2 + X_2^2 + X_3^2 \le c\} = .95$$

Express your answer in terms of a percentile for a distribution that we know. For example, the 15th percentile of a $\chi^2(7)$ is written as $\chi^2_{0.15}(7)$.

