

Mathematical Ways to Catch a Lion

For Analysts

First assemble your cage in the form of a function $\text{Cage}(z)$. Then identify the current location of the lion, z_0 . Finally, perform the integral $\frac{1}{2\pi i} \oint \frac{\text{Cage}(z)}{z - z_0} dz$ at a safe distance from the lion, whereupon the lion appears inside the cage thus: $\text{Cage}(z_0)$.

For Set Theorists

Apply Tarski-Banach decomposition to reduce the lion to the size of an ant. The ant can then be safely handled. Reverse the decomposition when the lion is secured.

For topologists

Construct a Klein bottle. You will find that the lion is already inside.

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