In[1]:= **$Assumptions = {m ∈ Reals, r ∈ Reals}**

Out[1]= $\{m \in \mathbb{R},\ r \in \mathbb{R}\}$

In[8]:= $\int \frac{1}{\sqrt{1 - \frac{2*m}{r}}}\, dr$

Out[8]= $r\sqrt{\frac{-2m+r}{r}} + m\,\text{Log}\left[-m + r + r\sqrt{\frac{-2m+r}{r}}\right]$