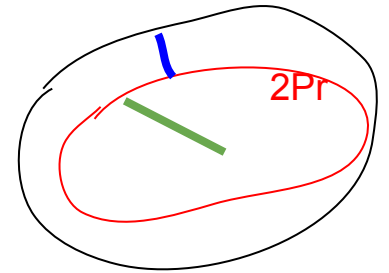


$$g = \sqrt{(dy)^2 + (dx)^2}$$

$$S_{\text{MMA}}[a,b] g = S[a,b] \sqrt{(dy)^2 + (dx)^2} = S[a,b] dx \sqrt{(dy/dx)^2 + 1} = S[a,b] \sqrt{(y')^2 + 1} dx$$



$$S_{\text{ленточки}} = w \cdot 2Pr = 2P \int y \sqrt{(y')^2 + 1} dx$$

$$w = \sqrt{(y')^2 + 1} dx$$

$$r = y$$

$$2PS[a;b] \int y \sqrt{(y')^2 + 1} dx$$

