freezegu:

1)
$$S = \int_{a}^{b} f(x) dx$$

$$S = \int_{a}^{b} (f_2(x) - f_1(x)) dx$$

3)
$$S = \int_{t_1}^{t_2} y(t) x'(t) dt$$

4)
$$S = \frac{1}{2} \int_{-\infty}^{\beta} r^2 d\varphi$$

Observor:

1)
$$V = \int_{a}^{b} S(x) dx$$

2)
$$V_{x} = J_{1} \int_{a}^{a} f^{2}(x) dx$$

3)
$$V_y = 2\pi \int x |f(x)| dx$$
, $0 < a \neq b$

4)
$$V_{x} = \pi \int_{a}^{b} (y_{2}^{2} - y_{1}^{2}) dx$$

5)
$$V=\frac{2}{3}\pi\int_{\alpha}^{\beta}r^{3}\sin\varphi d\varphi$$

Влина дуги:

2)
$$\ell = \int_{t_1}^{t_2} \sqrt{(x'_{\ell})^2 + (y'_{\ell})^2} dt$$

3)
$$\ell = \int_{r+(r')^2}^{\beta} d\varphi$$

Lucusage nolepxnocre:

1)
$$S = 2\pi \int_{A}^{B} R de$$

2)
$$S_{x} = 2\pi \int_{a}^{b} f(x) \sqrt{1 + (f(x))^{2}} dx$$

3)
$$S_X = 2 \sqrt{1} \int_{-t_1}^{t_2} y(t) \sqrt{(x'(t))^2 + (y'(t))^2} dt$$

4)
$$S_x = 2\pi \int_{\alpha}^{\beta} r \sin \varphi \sqrt{r^2 + (r')^2} d\varphi$$