

ПРИМЕР 52.2. Изменить порядок интегрирования в интеграле $\int_{-4}^3 dx \int_{-\sqrt{25-x^2}}^{\sqrt{25-x^2}} f(x; y) dy$.

$$\iint_{NQC} f(x, y) ds = \int_{-5}^{-4} dy \int_{-\sqrt{25-y^2}}^{\sqrt{25-y^2}} f(x, y) dx.$$

$$\iint_{DNCM} f(x, y) ds = \int_{-4}^{-3} dy \int_{-\sqrt{25-y^2}}^{\sqrt{25-y^2}} f(x, y) dx.$$

$$\iint_{ADMK} f(x, y) ds = \int_{-3}^{-4} dy \int_{-\sqrt{25-y^2}}^{\sqrt{25-y^2}} f(x, y) dx.$$

$$\iint_{EAKB} f(x, y) ds = \int_3^4 dy \int_{-\sqrt{25-y^2}}^{\sqrt{25-y^2}} f(x, y) dx.$$

$$\iint_{ETB} f(x, y) ds = \int_4^5 dy \int_{-\sqrt{25-y^2}}^{\sqrt{25-y^2}} f(x, y) dx.$$

