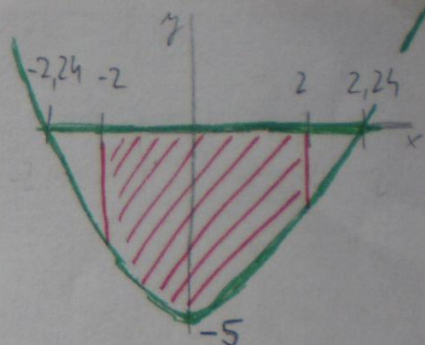


$$1) \int_{-2}^2 (x^2 - 5) dx$$

$$y_1 = x^2 - 5$$

$$y_2 = 0$$



$$\int_{-2}^2 x^2 dx - \int_{-2}^2 5 dx = \left[\frac{x^3}{3} \right]_{-2}^2 - 5 \left[x \right]_{-2}^2 = \left[\frac{2^3}{3} - \frac{(-2)^3}{3} \right] -$$

$$- 5[2 - (-2)] = \frac{8}{3} + \frac{8}{3} - 5 \cdot 4 = \frac{16}{3} - 20 = \frac{16 - 60}{3} =$$

$$= -\frac{44}{3} = -14,67$$

$$0 - (-14,67) = \underline{\underline{14,67}} \text{ plošných jednotek (pr. cm}^2\text{)}$$