Afinní podprostor:

množina uzavřená na afinní kombinace

$\sum \alpha_i = 1$

$\sum \beta_j = 1$

$\alpha + \beta = 1$

$$\alpha\left(\sum^{k} \alpha_i x_i\right) + \beta\left(\sum^{k} \beta_j y_j\right) =$$

$$= \sum \alpha\alpha_i x_i + \sum \beta\beta_j y_j$$

koef.: $\alpha\alpha_1 + \alpha\alpha_2 + \beta\beta_1 + \beta\beta_2$

$$\alpha \sum \alpha_i + \beta \sum \beta_j = \alpha 1 + \beta 1 = 1$$

$\sum \alpha_i = 1$ $\qquad f\left(\sum \alpha_i x_i\right) = \sum \alpha_i f(x_i)$

$$f(x) = g(x) + b$$

$$f(o) = o + b$$