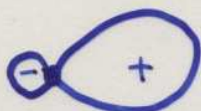
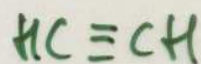
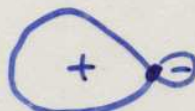


s-p hibridpályák

sp (lineáris)



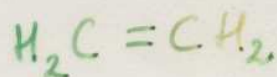
$$\frac{1}{\sqrt{2}}(s + p_z)$$



$$\frac{1}{\sqrt{2}}(s - p_z)$$

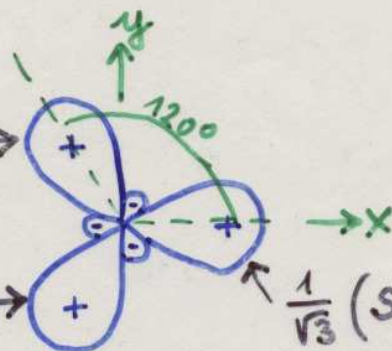
→ 2.

sp² (trigonális)



$$\frac{1}{\sqrt{3}}\left(s - \frac{1}{2}p_x + \sqrt{\frac{3}{2}}p_y\right)$$

$$\frac{1}{\sqrt{3}}\left(s - \frac{1}{2}p_x - \sqrt{\frac{3}{2}}p_y\right)$$



$$\frac{1}{\sqrt{3}}(s + \sqrt{2} \cdot p_x)$$

sp³ (tetragonális)



$$\frac{1}{2}(s + p_x + p_y + p_z)$$

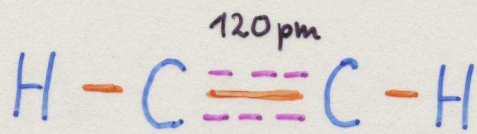
$$\frac{1}{2}(s - p_x - p_y + p_z)$$

$$\frac{1}{2}(s + p_x - p_y - p_z)$$

$$\frac{1}{2}(s - p_x + p_y - p_z)$$

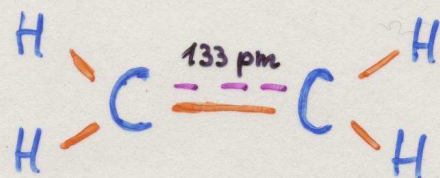


sp^1 (lineáris) :



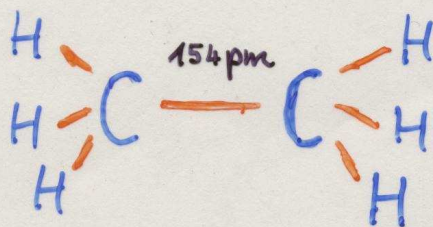
acetilén

sp^2 (trigonális) :



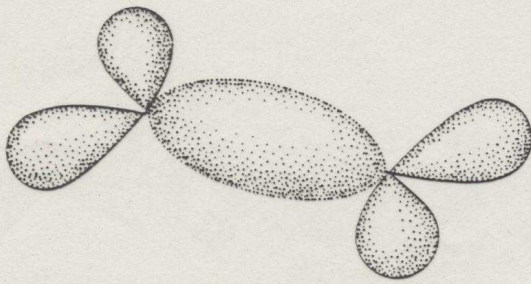
etilén

sp^3 (tetragonális) :

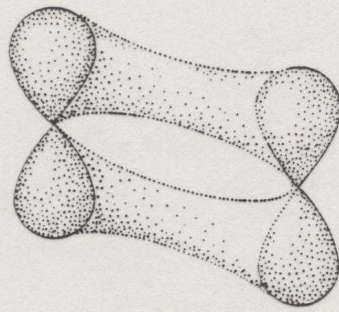


etán

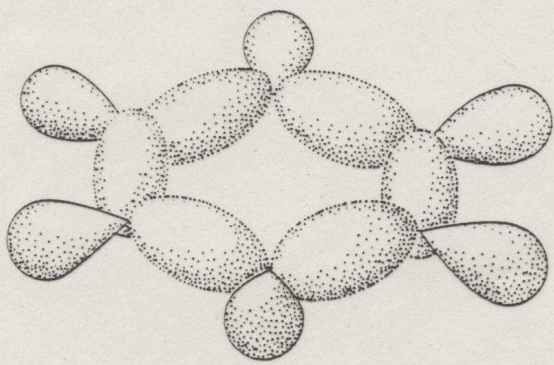
etilén $(H_2C=CH_2)$



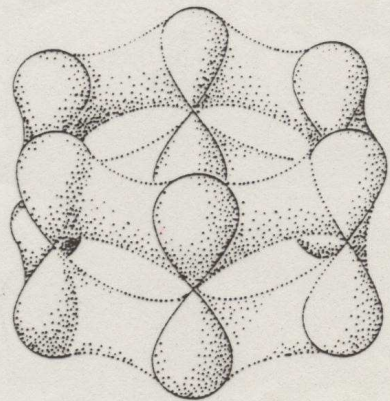
σ



π



σ

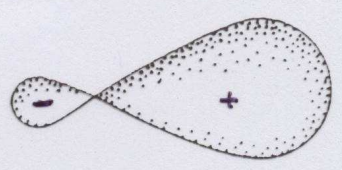
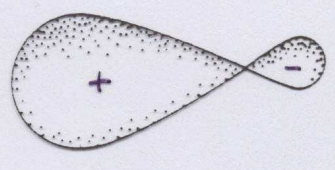
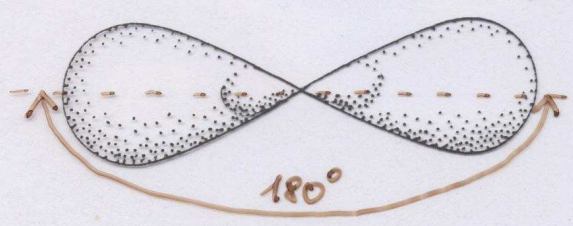


π

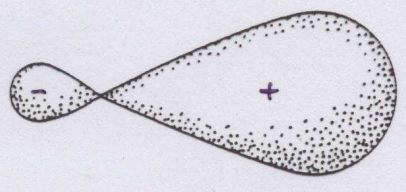
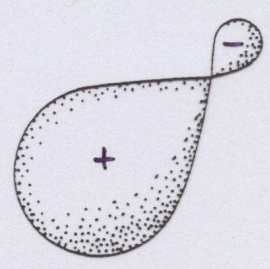
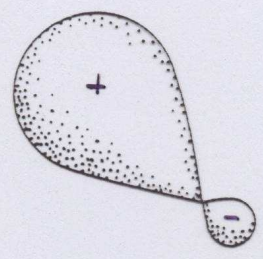
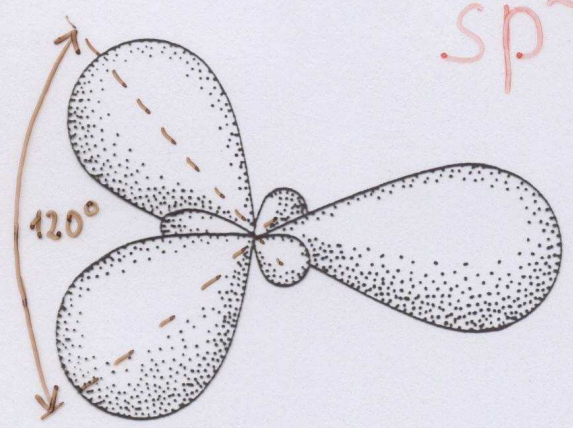
benzol (C_6H_6)

sp - hibridpályák

sp¹



sp²



sp³

