Je odhad \$2 = 1 = (K; - L) hesteanny posud K; ~ N(µ, 52) kdyz a) h je zvahu! 5) 4 je neznalne?  $\delta^2 = E[(x_i - \mu^2)] = E[x_i^2] - [\mu E[x_i] + \mu^2 = E[x_i^2] - \mu^2 = 0$   $E[x_i^2] = \delta^2 + \mu^2$ E[3] = E[45 (X; -4)2] = 1 = E[(X; -4)2] = 1 5 02 = 02 = ) Mestrum, je  $X = \frac{1}{4} \leq (6^{2} + \mu^{2}) - \frac{1}{4} \left( (n^{2} - n)(m^{2} + n)(m^{2}) + n(\mu^{2}) \right) = 6^{2} + \mu^{2} - \mu^{2} - \frac{1}{4} = \frac{n-1}{4} = \frac{1}{4}$  $E[\zeta_{2}] = E[\zeta_{2} = E[\zeta_{3} = \zeta_{3} = \zeta_{3}] = \zeta_{3} = \zeta_{3$ 8) he near when take to naturable odhaden he = 15%. = ## 15 E[x;x] - 3 55 E[x,x,] + 1,55 E[x,x,] - 2 55 E[x,x,] -= 15E[X;] - 152E[X;X,] = X  $\begin{bmatrix} x, +_{i} & E[x_{i}] & E[x_{i}] = \mu^{2} \\ \mu^{2} & \mu^{2} \end{bmatrix}$  $E[X; K_j] = \begin{cases} \tilde{x} = j & E[X_j^2] = 0^2 + \beta^2 \end{cases}$ Pomocne' ugpoctg: a) h je znale Polacifere:

=) ueui nestranny