LESSON 4: Putting One Thing Over Another

The basic methods for putting things on top of other things in regular LaTeX goes like the following:

$\dst \stackrel{a}{b}$ $\qquad\qquad\qquad\qquad$ $\stackrel{a}{b}$

$\dst \overline{\Omega}$ $\qquad\qquad\qquad\qquad$ $\overline{\Omega}$

$\dst \underline{W}$ $\qquad\qquad\qquad\qquad$ $\underline{W}$

As usual there are other tings available using the *amsmath* package:

$$\overset{\circ}{\Omega}$$

$\dst \overset{\circ}{\Omega}$

$\dst \underset{\sim}{W}$ $\qquad\qquad\qquad\qquad$ $\underset{\sim}{W}$

$$\|f_n - f\| \xrightarrow{n\to\infty} 0$$

$\dst \|f_n-f\|\xrightarrow{n\ra \i }0$

$$\int\limits_a^b f(x)\, dx$$

$\dst \int\limits_a^b f(x)\, dx$

$$\sum_{\substack{0\le i\le m\\ 0<j<n}} P(i,j)$$

$\dst \sum_{\substack{ 0\le i\le m\\ 0<j<n}} P(i,j)$

$$\sideset{_1^2}{_3^4}\prod$$

$\dst \sideset{_1^2}{_3^4}\prod$

PROBLEM:
Give the syntax to create a capital Π with a "tilde" (see $\sim$ above) over it and a "bar" over the tilde.