Test what arguments hat accepts (should be same with check, breve, acute, grave, tilde, bar, vec, dot, ddot, overline, widehat, widetilde)

$$[\hat{A}] \quad [\hat{A}] \quad [\hat{A}] \quad [\hat{A}\hat{B}C] \quad [\hat{A}] \quad [\hat{A}] \quad [\hat{A}] \quad [\hat{\$}] \quad [\hat{A}] \quad [\hat{\$}]$$

Note that this only accents the A

$$[\hat{A}BC]$$

Other accent-like macros (underbrace, overbrace) only accept regular style arguments $\,$

But note that while these don't fail, they accent nothing

$$[A] \quad [A] \quad [A] \quad [A]$$

And a peculiar case

$$f_{oo}$$