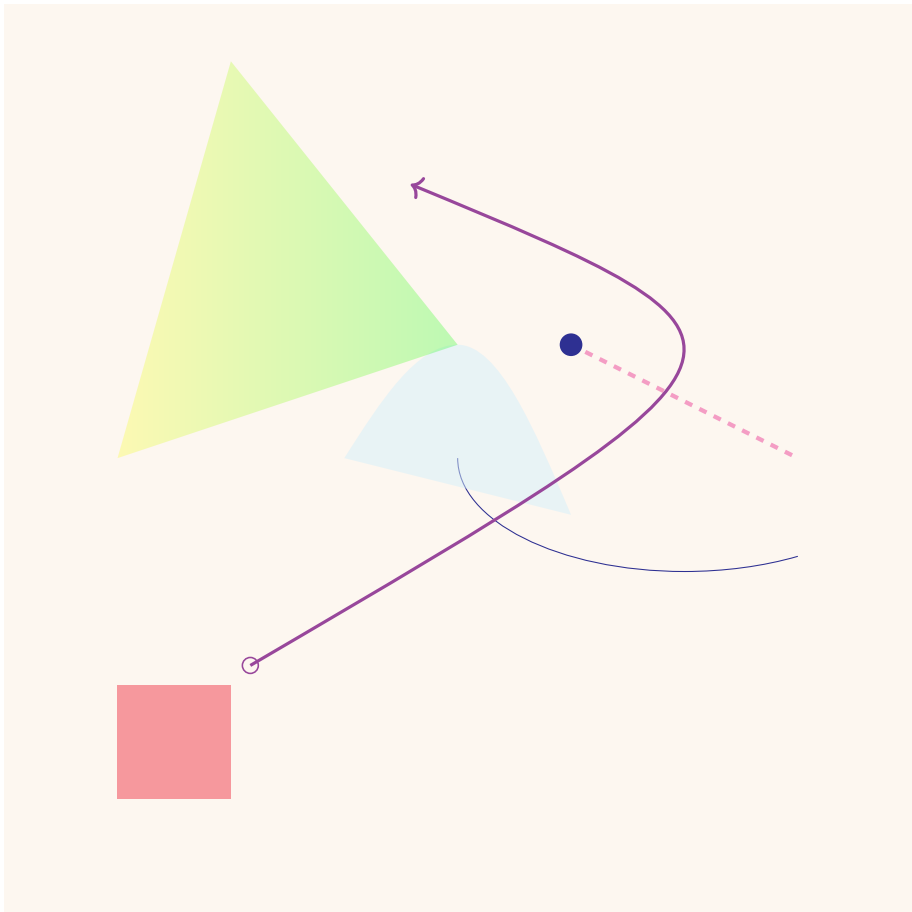


This is some text with your formatting.

$$\sup A$$



$$\overrightarrow{xyzxyz}$$

$$\begin{array}{ccccccc}
 & & & f & & & \\
 & & \swarrow & & \searrow & & \\
 A & \xrightarrow{\quad} & \twoheadrightarrow & (A/\sim) & \xrightarrow[\tilde{f}]{\overrightarrow{xyzzyzyz}} & \operatorname{im} f & \hookrightarrow B \\
 & & & & & & \\
 & & & & & & 
 \end{array}$$