Examples of singular free boundary points where the function $u - \psi$ has strict quadratic growth. We expect quadratic growth in the direction of the red arrows. The case on the right is more degenerate than the case on the left, and worse for the approximation of the free boundary Γ (depicted in blue). In both cases we have that $\dim \ker \mathbf{A} = 1$. A discrete free boundary Γ_Δ, which is at a distance $\mathcal{O}(\delta(h)^{1/2})$ is depicted in dashed brown.