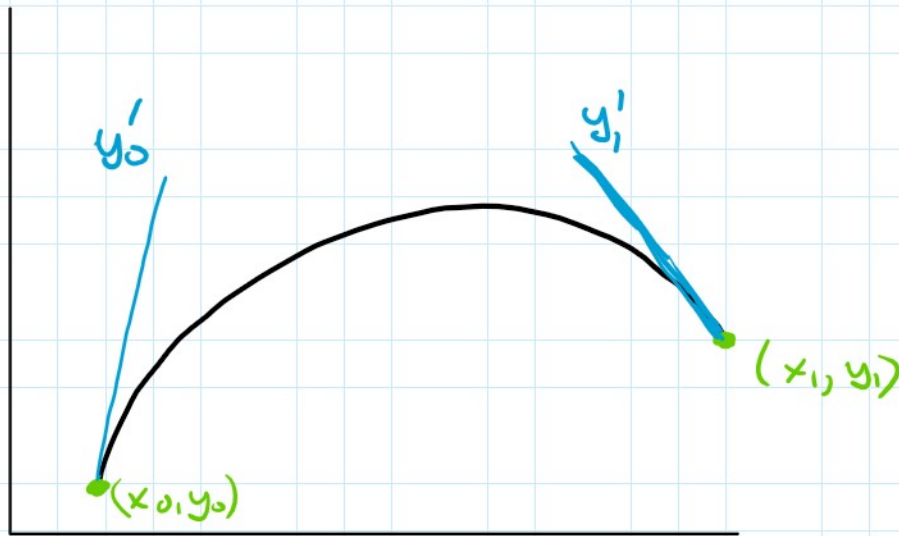


Ide fra kubisk Hermite interpolasjon



1) interpolere to punkter (x_0, y_0) og (x_1, y_1)

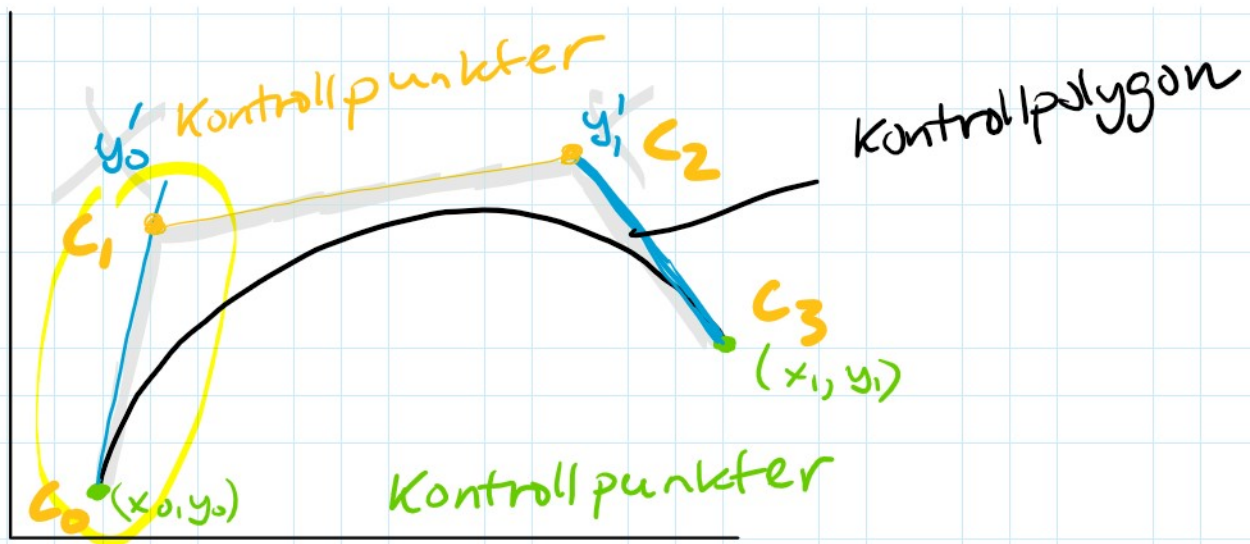
2) interpolere to deriverte y'_0 og y'_1

y'_0 = stigningstallet til tangenten i (x_0, y_0)

y'_1 = ——— " ——— (x_1, y_1)

Bezier / de Casteljau

- kontrollere kurven med 4 punkter
- kubisk kurve

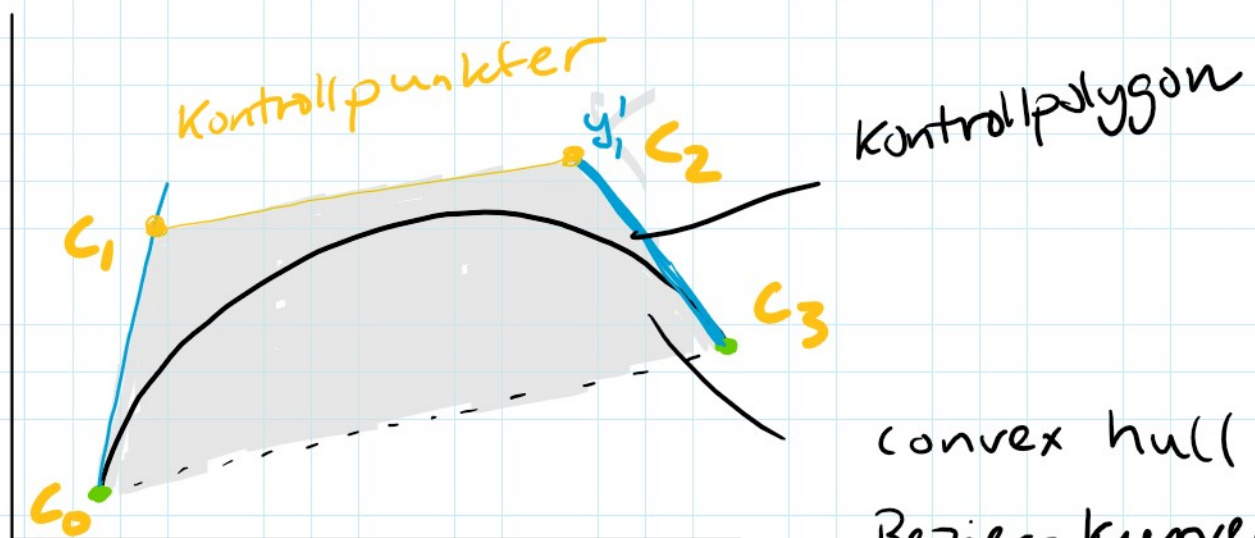


Bestemmer tangent

og et punkt

- altså : Kontrollpunktet c_1 ligger "på tangenten"

- samme med c_2

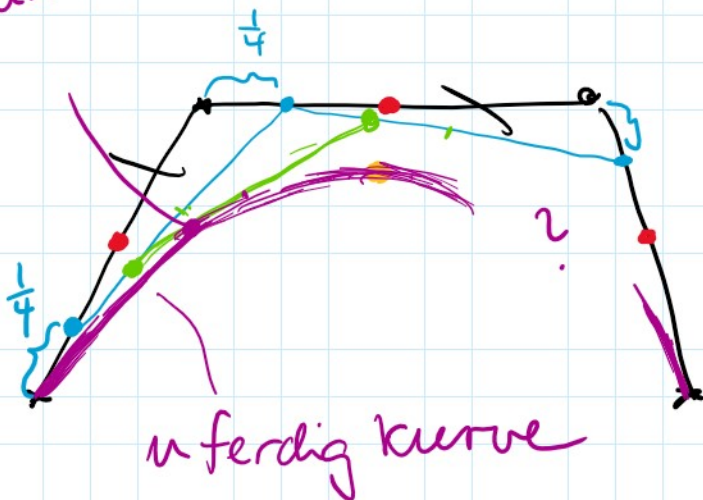
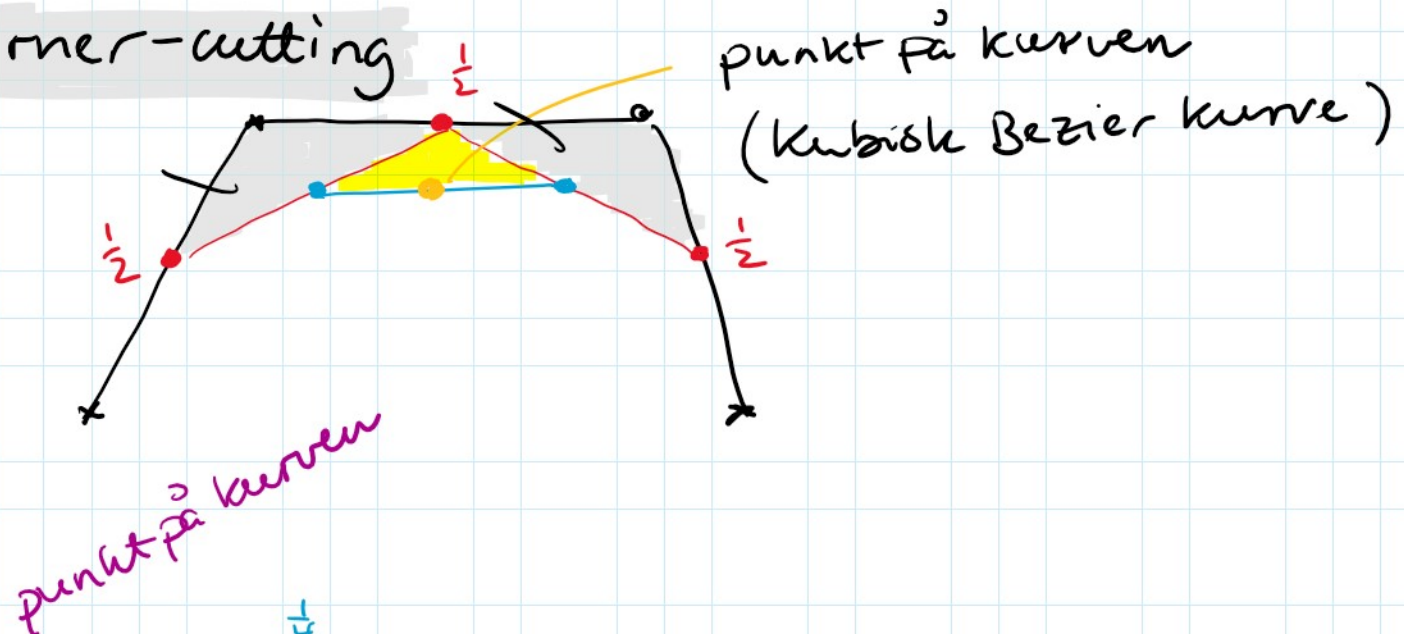


convex hull
Bezier-kurven
ligger i convex
hull.

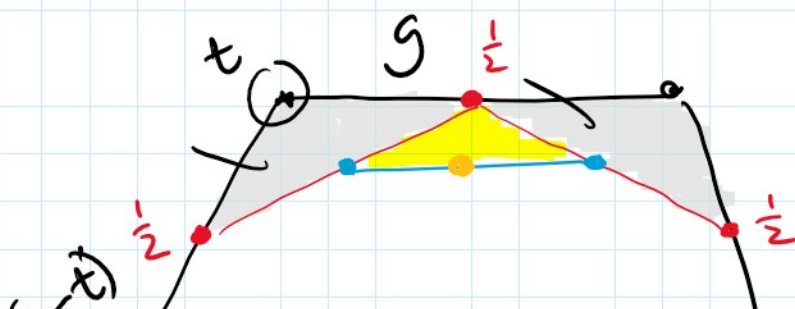
Matematisk grunnlag : Bezier / Bernstein basis funksjoner (neste uke)

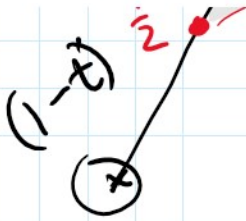
Tegne-algoritme : deCasteljau

corner-cutting



deCasteljau :





Kan ha grad $d=2$, $d=4$, høyere

Antall kontrollpunkter = grad + 1

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