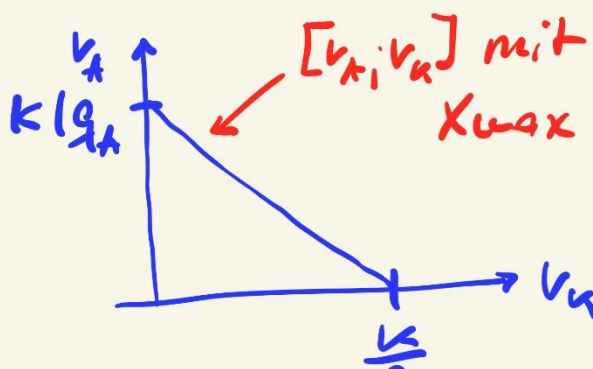


variable Produktionsfaktoren

$v_A; v_K$ - variabel

v_A - Faktor Arbeit

v_K - Faktor Kapital



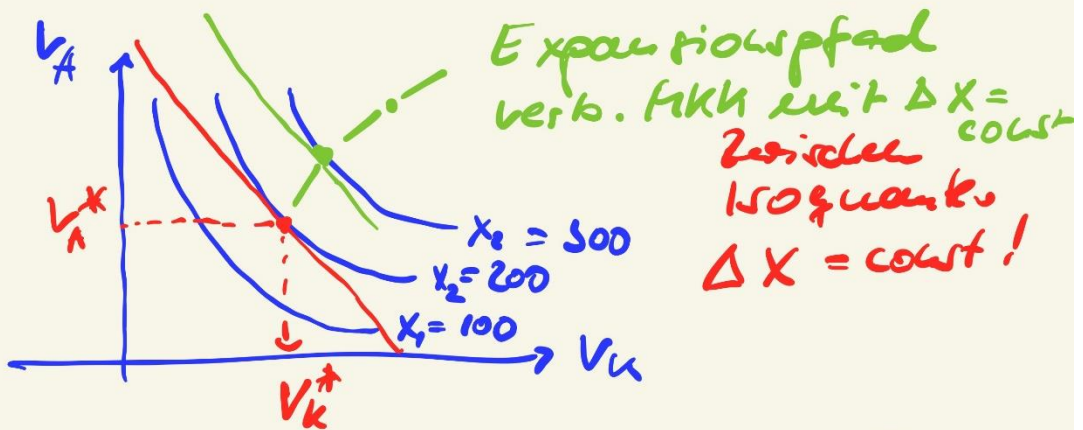
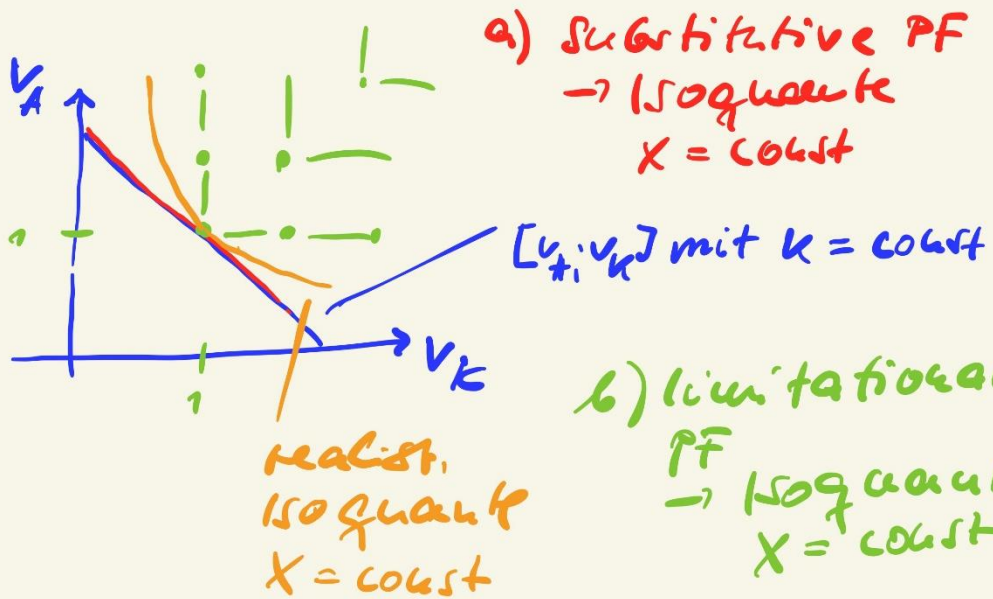
q_A - Arb.-kosten

q_K - Kap.-kosten

$$K = v_A \cdot q_A + v_K \cdot q_K$$

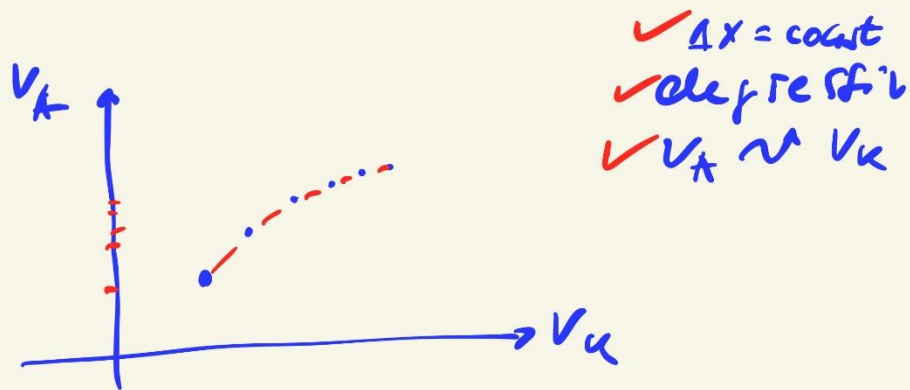
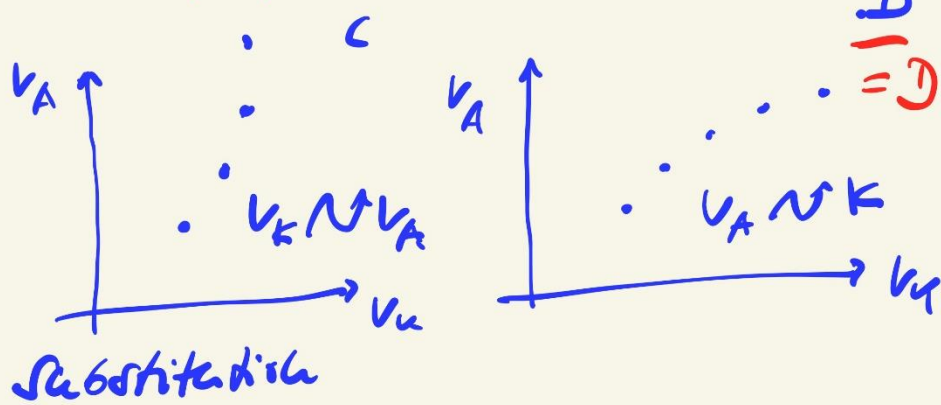
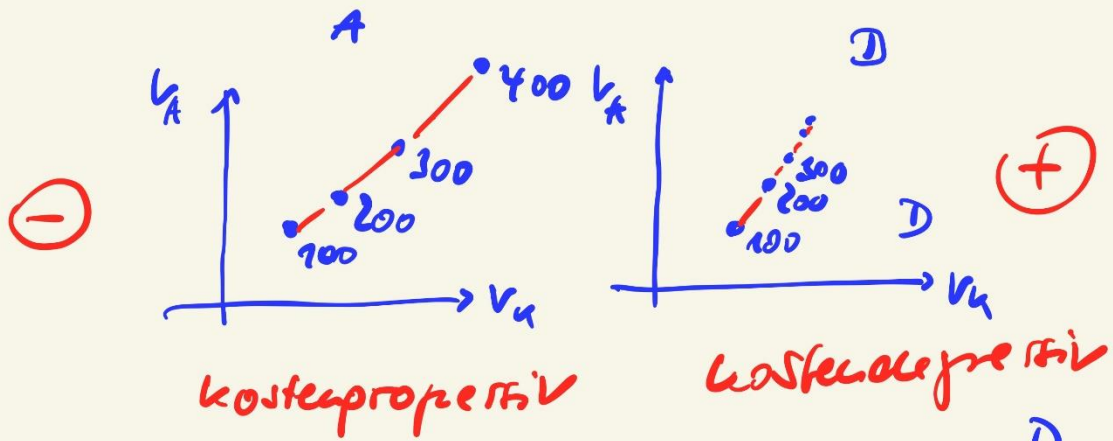
Isokostengerade

$K = \text{const}$

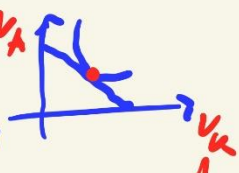


$[v_A; v_K] \rightarrow X$ mit min k
 $\rightarrow k$ mit max X

!
 minimal kostenkombi. optimale
 Fkk



Analyt. Bestimmung MKK

Aus tief Isokostenquadrate  Aus tief ad Isoquante

$$K = v_A \cdot q_A + v_K \cdot q_K$$

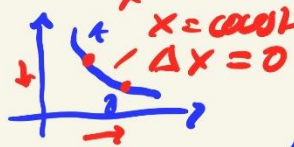
$$y = a \cdot x + b$$

$$v_A = f(v_K)$$

$$v_A \cdot q_A = -v_K \cdot q_K$$

$$v_A = -\frac{q_K}{q_A} \cdot v_K$$

Grenzrate
 der Faktor-
 substitution



$$0 = -\Delta v_A \cdot \frac{\Delta x}{\Delta v_A} + \Delta v_K \cdot \frac{\Delta x}{\Delta v_K}$$

$$\Delta v_A \cdot \left(\frac{\Delta x}{\Delta v_A} \right) = -\Delta v_K \cdot \left(\frac{\Delta x}{\Delta v_K} \right)$$

$$\Delta v_A \cdot GP_A = -\Delta v_K \cdot GP_K$$

$$\rightarrow \Delta v_A = -\frac{GP_K}{GP_A} \cdot \Delta v_K$$