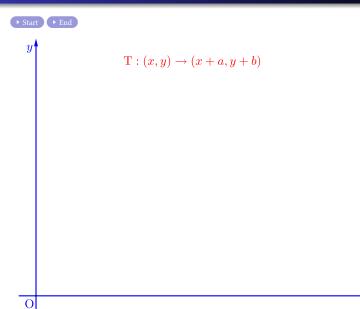
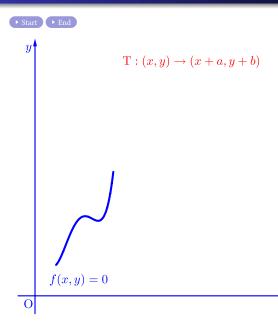
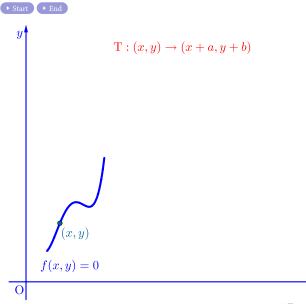
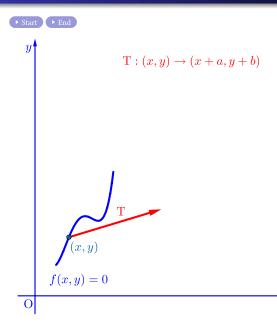
$$f(x, y) = 0$$
 평행이동  
(Translation of  $f(x, y) = 0$ )

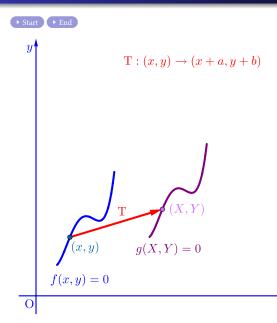
▶ Start ▶ End

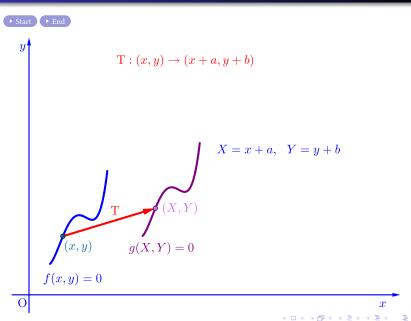


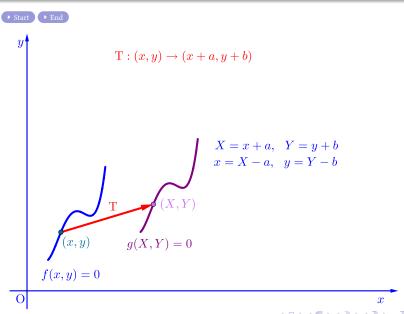


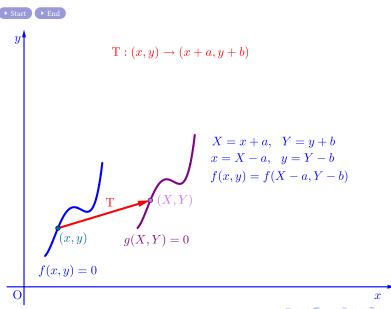


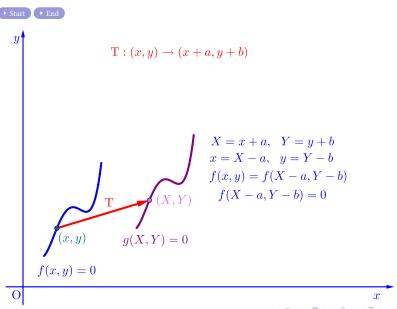


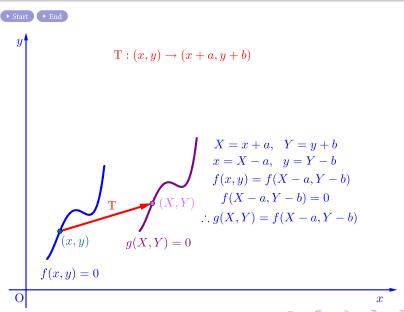


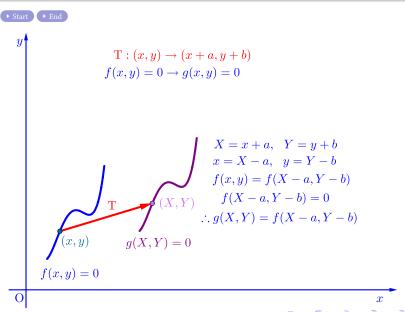


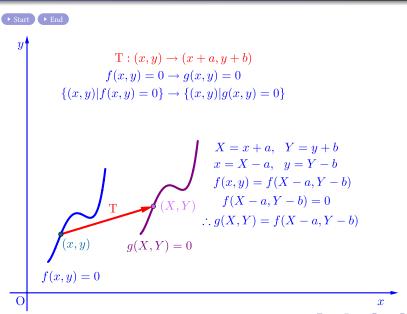


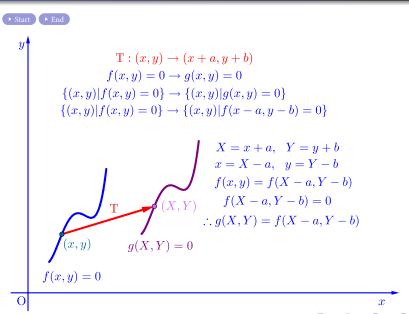












▶ End y' $T:(x,y)\to(x+a,y+b)$  $f(x,y) = 0 \rightarrow g(x,y) = 0$  $\{(x,y)|f(x,y)=0\} \rightarrow \{(x,y)|g(x,y)=0\}$  $\{(x,y)|f(x,y)=0\} \rightarrow \{(x,y)|f(x-a,y-b)=0\}$  $f(x,y) = 0 \to f(x-a, y-b) = 0$ X = x + a, Y = y + bx = X - a, y = Y - bf(x,y) = f(X - a, Y - b)f(X-a,Y-b)=0 $\therefore q(X,Y) = f(X-a,Y-b)$ q(X,Y)=0f(x,y) = 0O  $\boldsymbol{x}$ 

#### Github:

https://min7014.github.io/math20210929001.html

Click or paste URL into the URL search bar, and you can see a picture moving.