$$f(x) = e^{x^2}, \quad \int f(x)\,\underline{dx}, \quad t = x^2$$
$$dt = 2x\,dx$$

$$\int f(t)\,\underline{dt}$$

$$\int_a^b f(x)\,dx$$

$$\int_c f(t)\,dt$$

$$\int_a^b \int_c^d f(x,y)\,dx\,dy$$

$$\iint_S f(x,y)\,dx\,dy$$

$f(t)$

$t \in (a,b]$

DC

$f(x)$

$C(D)$

$$y = 2x$$

$$y = 2x$$
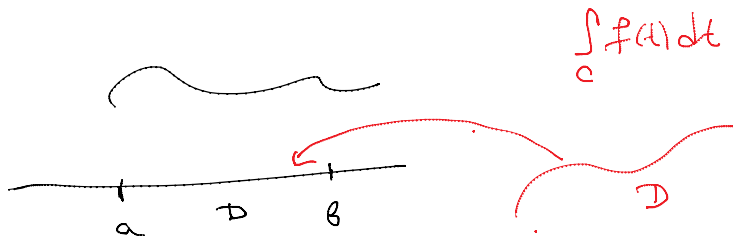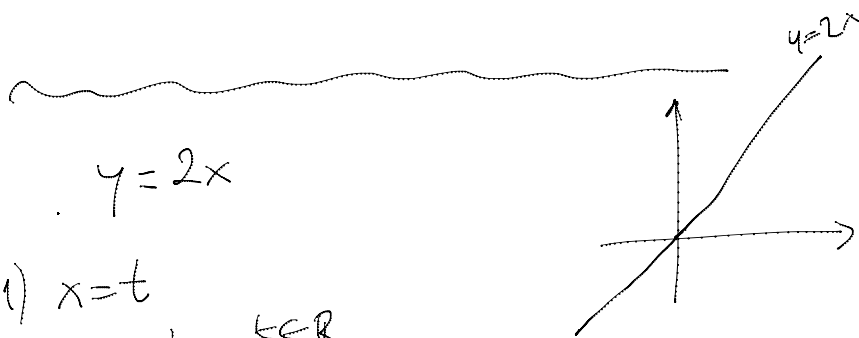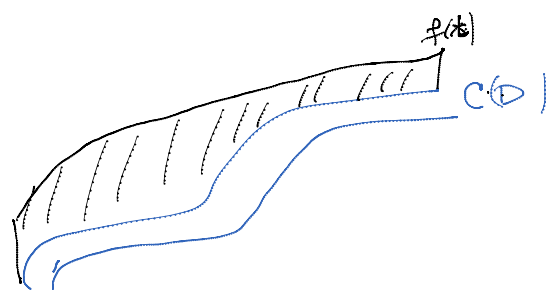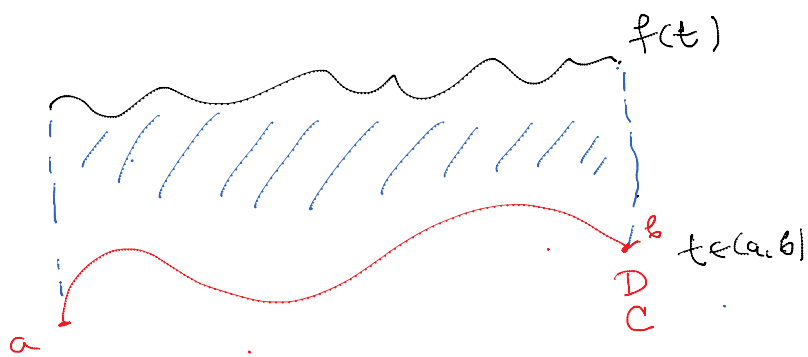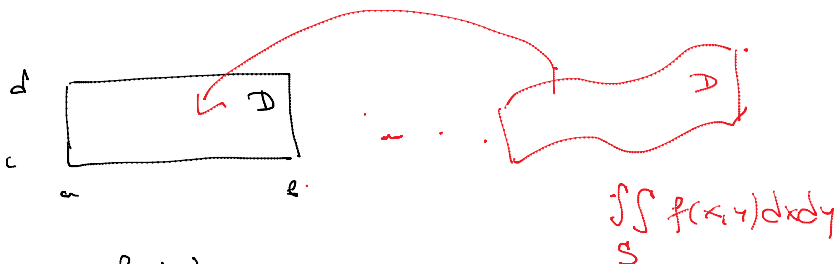
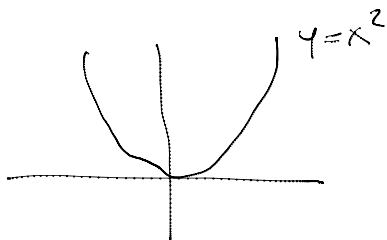1) $x = t$
   $y = 2t \qquad t \in R$

2) $x = \dfrac{t}{2}$
   $y = t$

3) $x = -t$
   $y = -2t$

$$y = x^2$$

$$y = x^2$$

1) $t = x$, $y = t^2$

2) $x = -t$, $y = t^2$

3) $x = 3t$, $y = 9t^2$

$\vec{r}(a) = \vec{r}(b)$

$\vec{r}(t_1) = \vec{r}(t_2) = T$