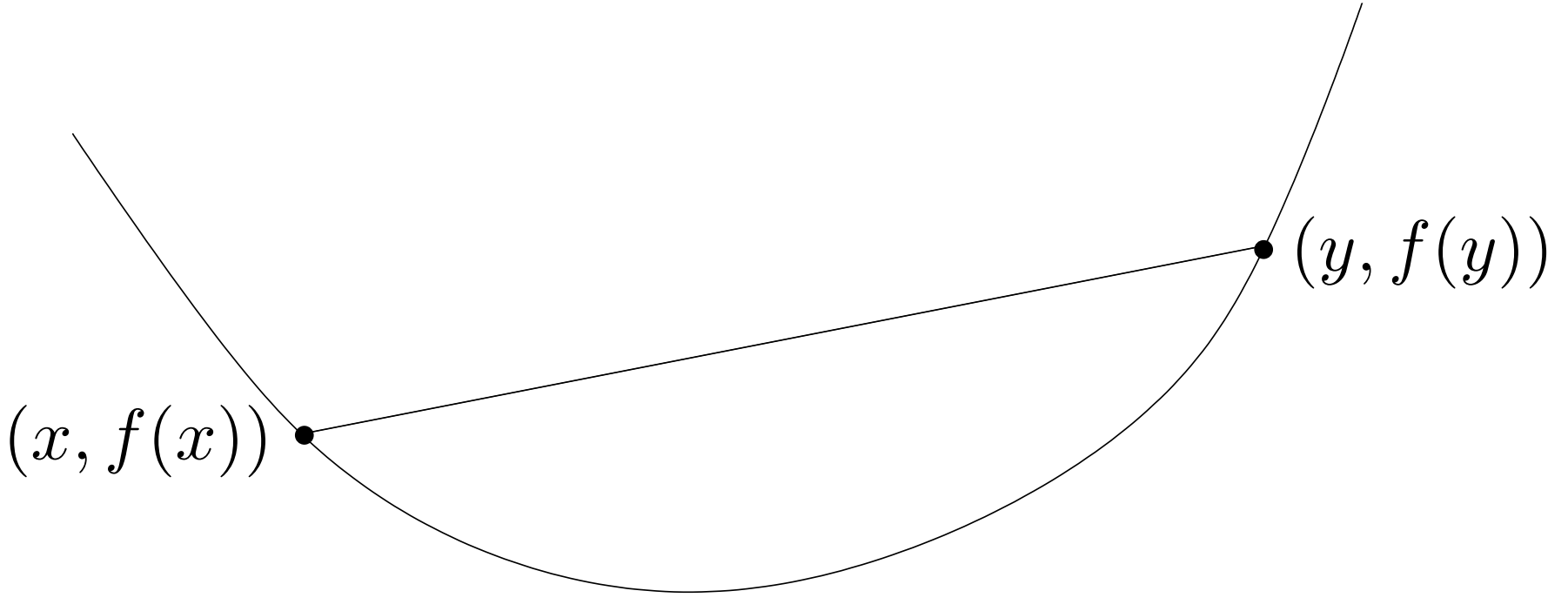
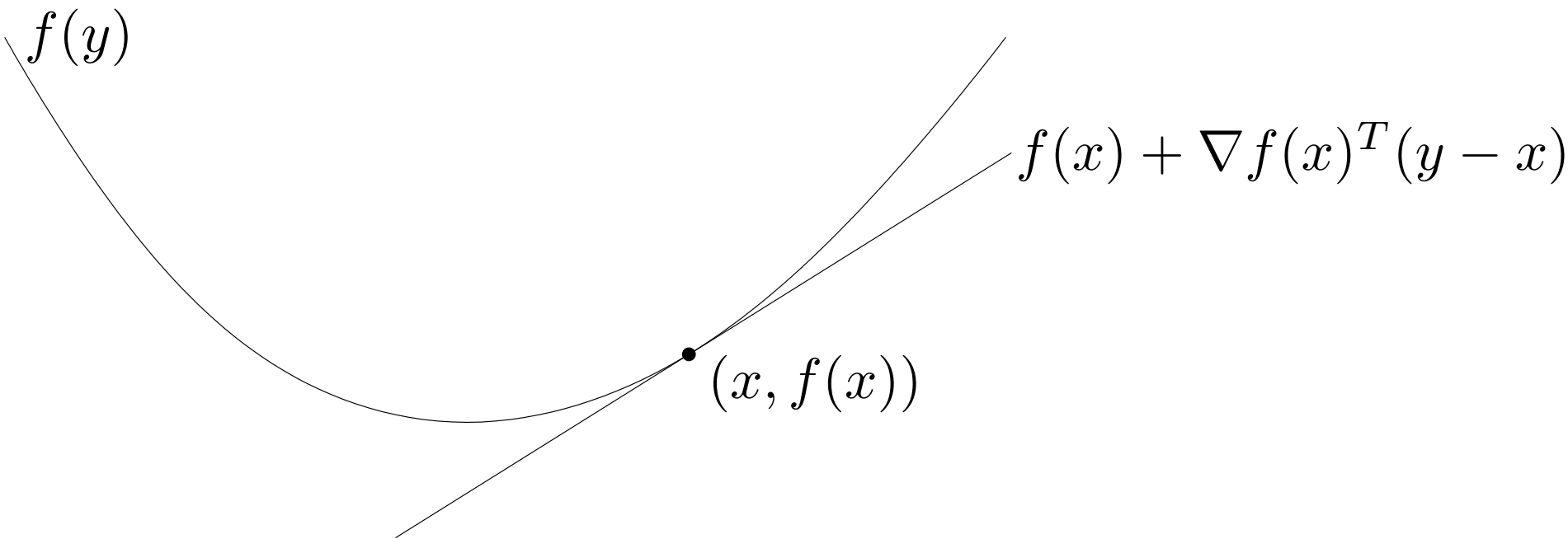
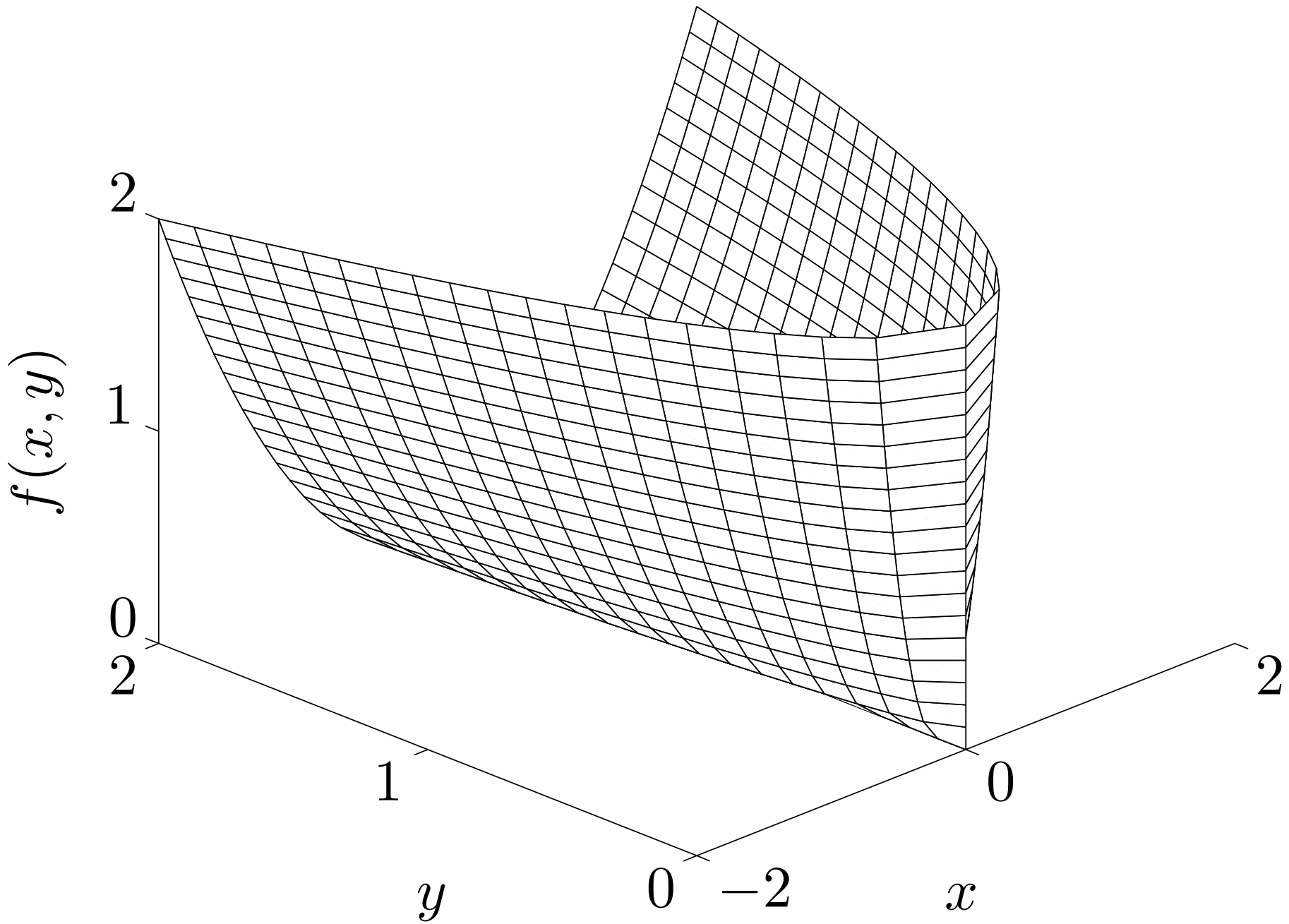
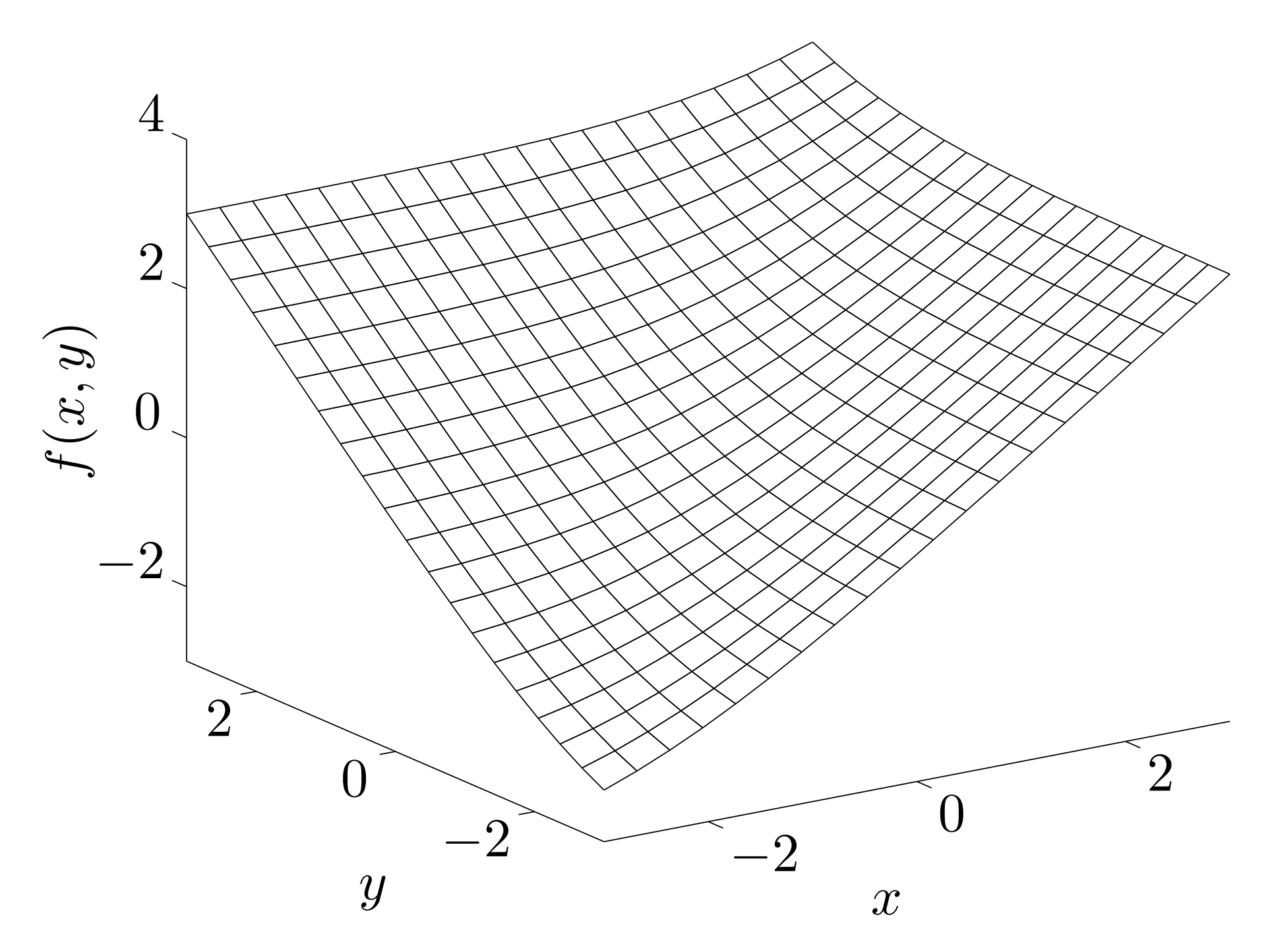
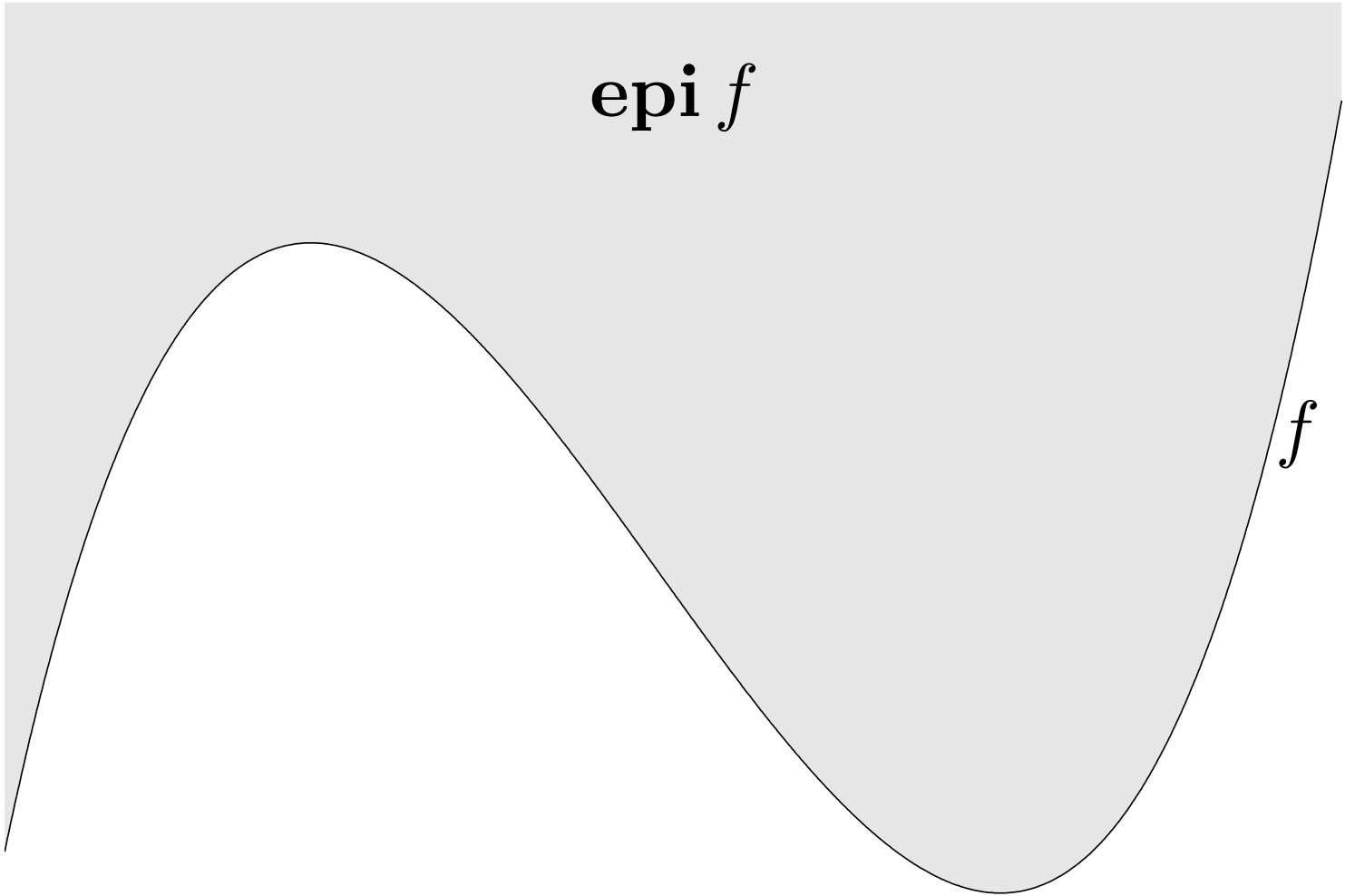
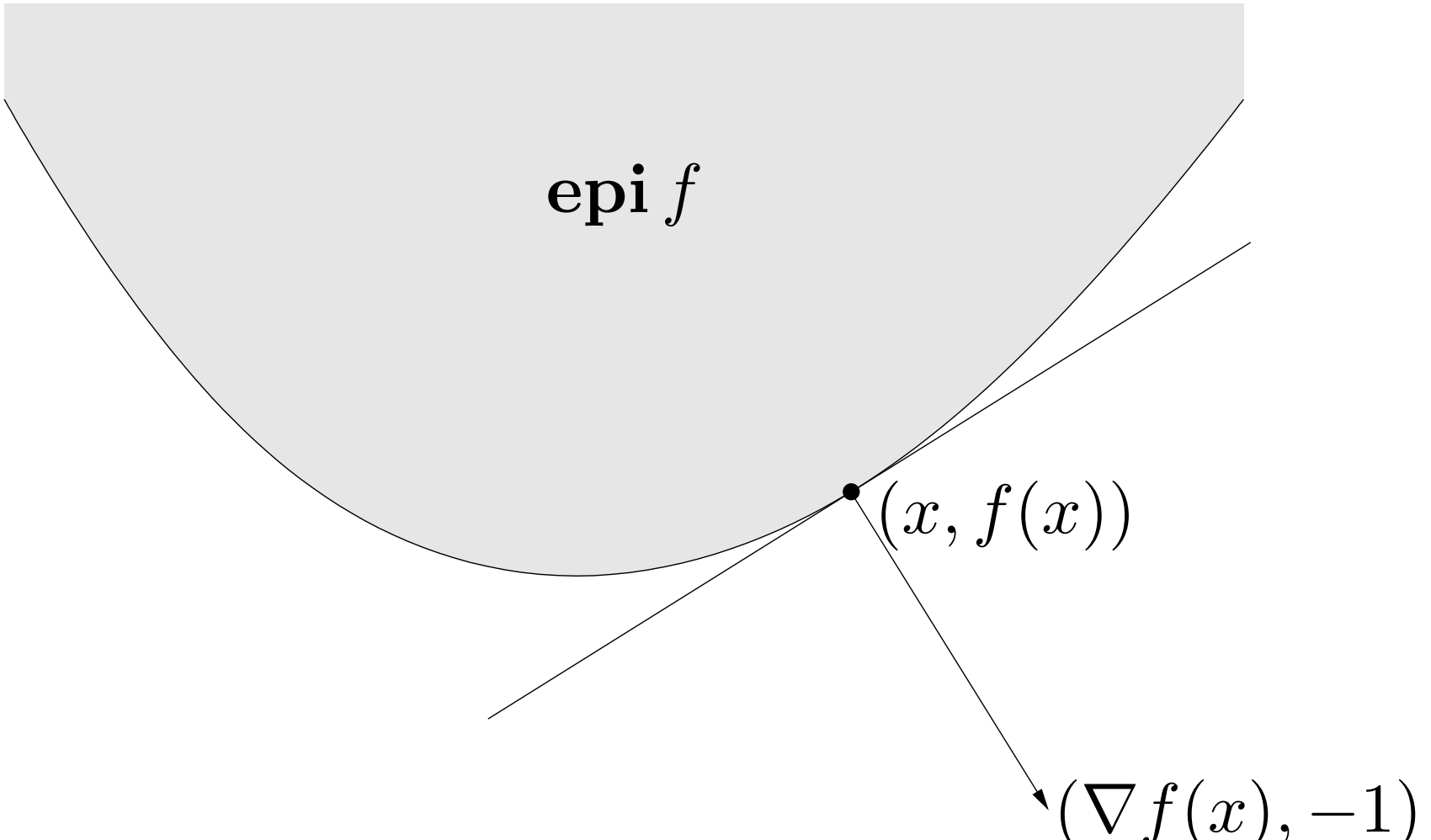

$(y, f(y))$
$(x, f(x))$

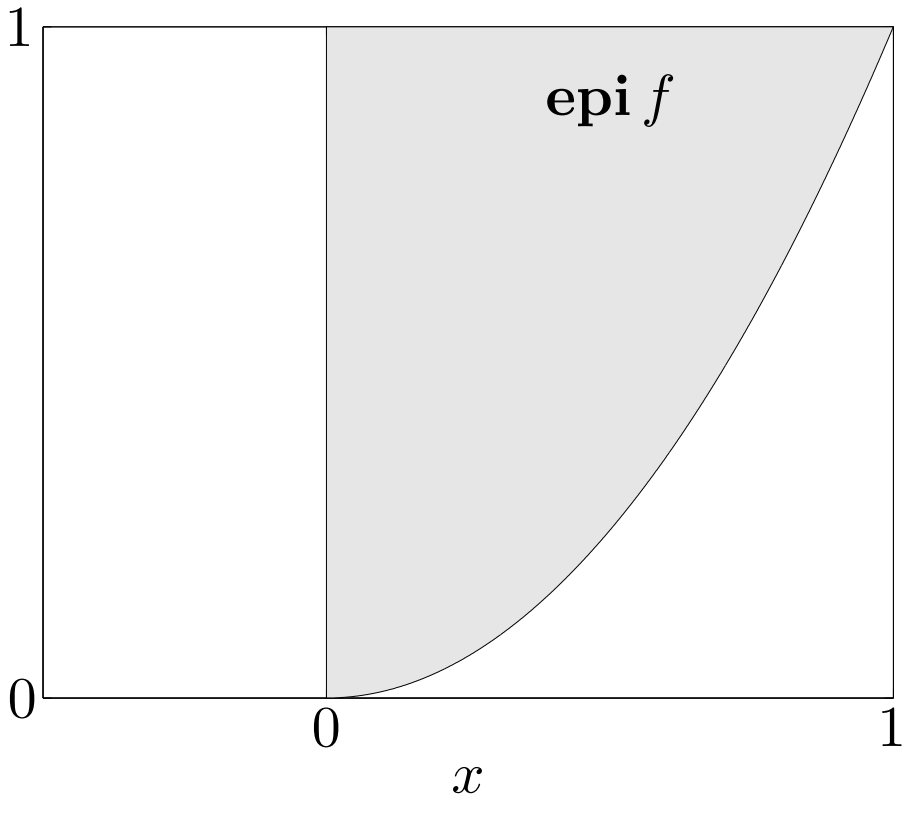

$f(y)$
$f(x) + \nabla f(x)^T (y - x)$
$(x, f(x))$

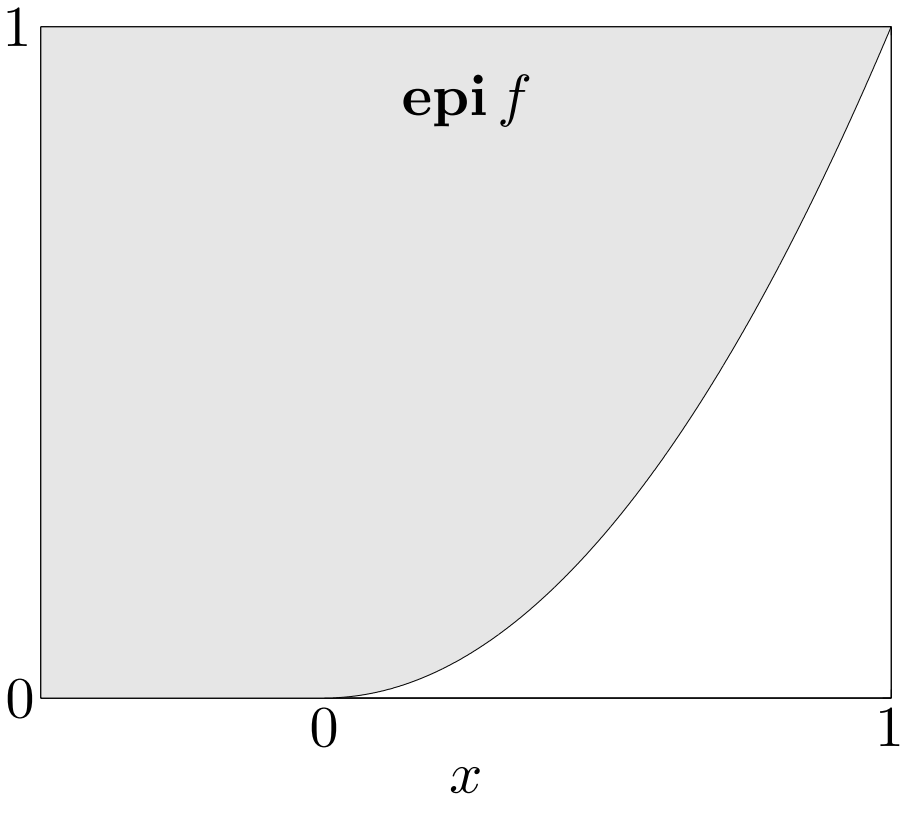

2
1
0
$f(x, y)$
2
1
0
y
0
-2
x
2

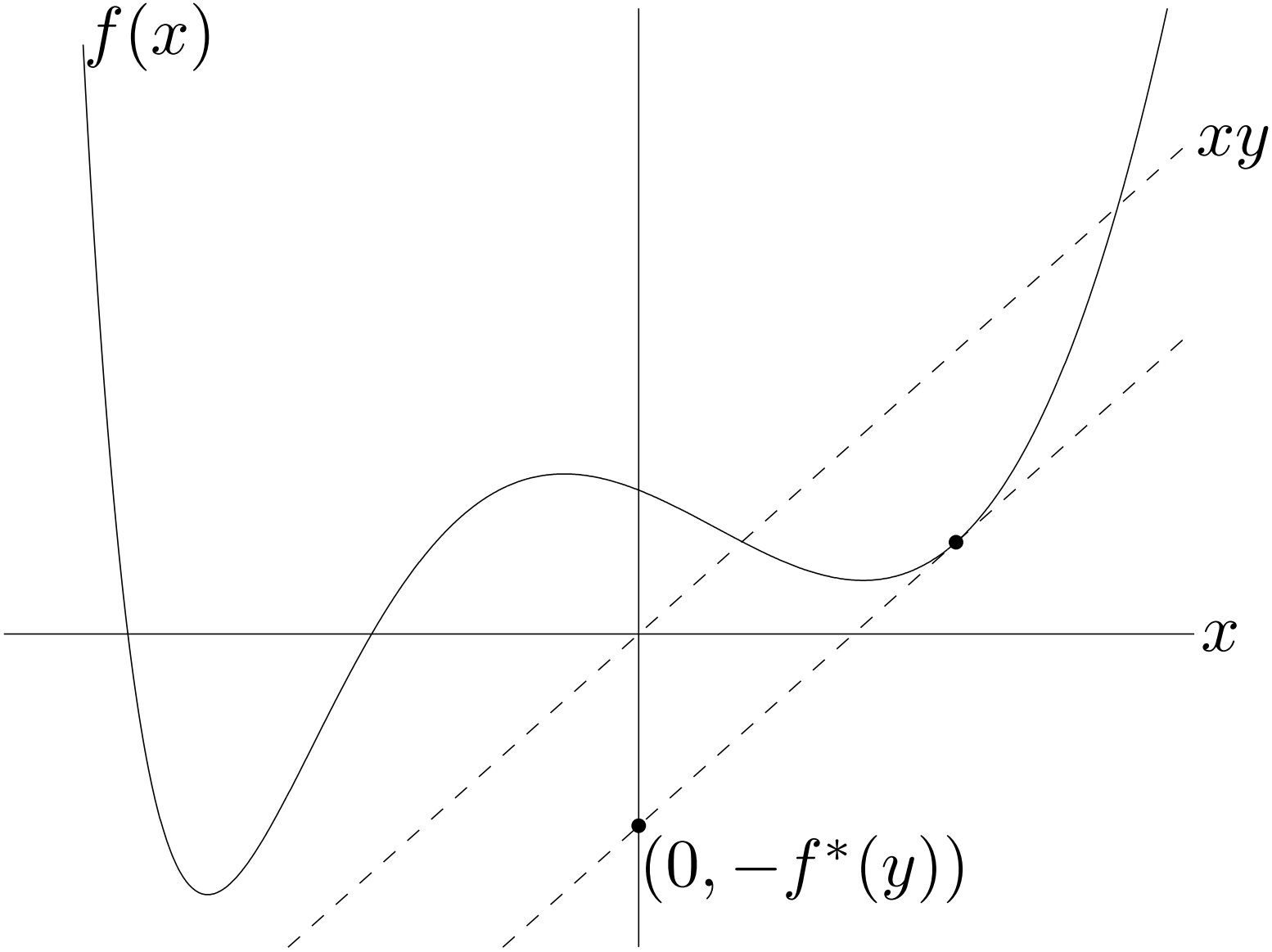

4
2
0
−2
$f(x, y)$
2
0
−2
y
−2
0
2
x

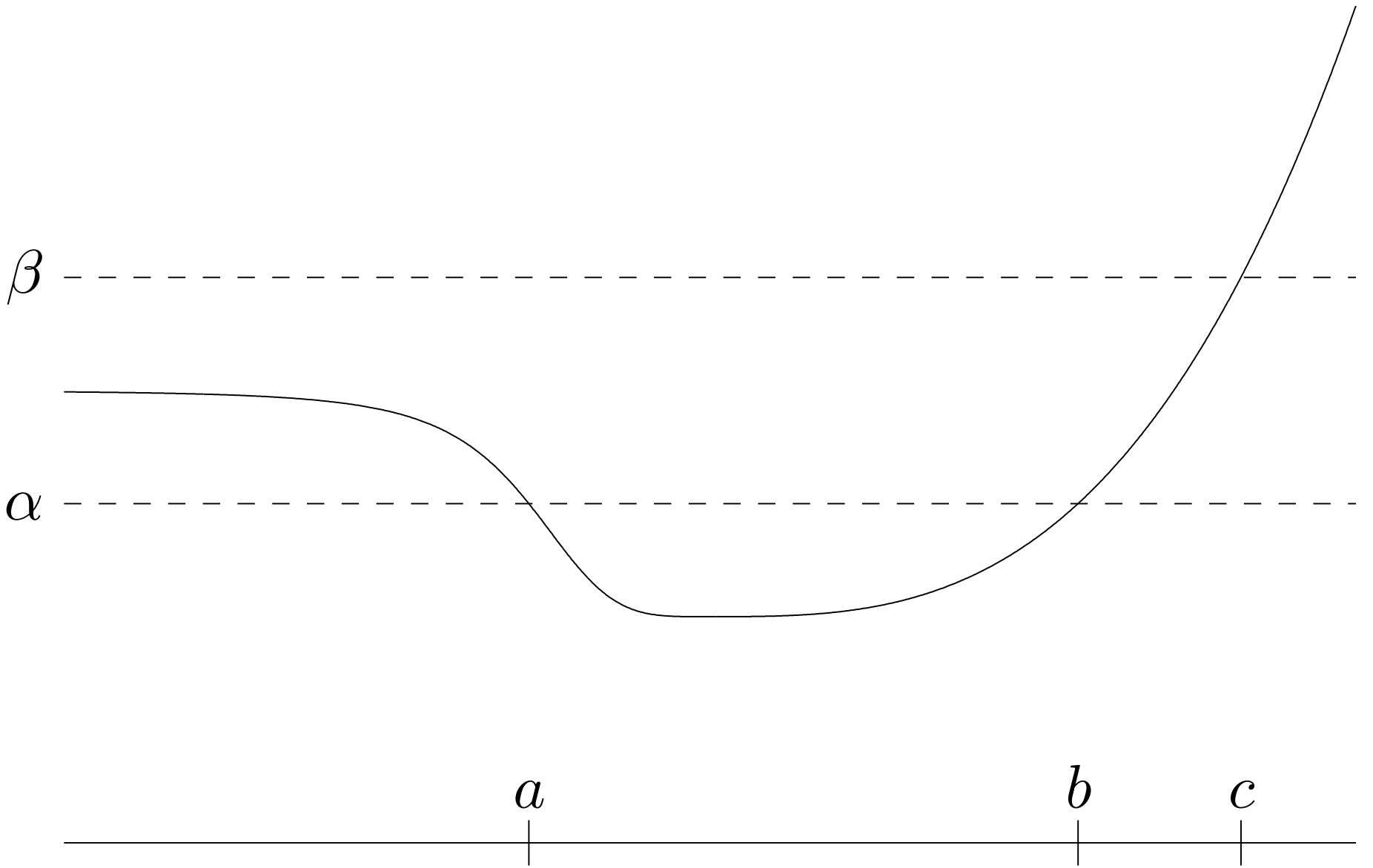

epi f
f

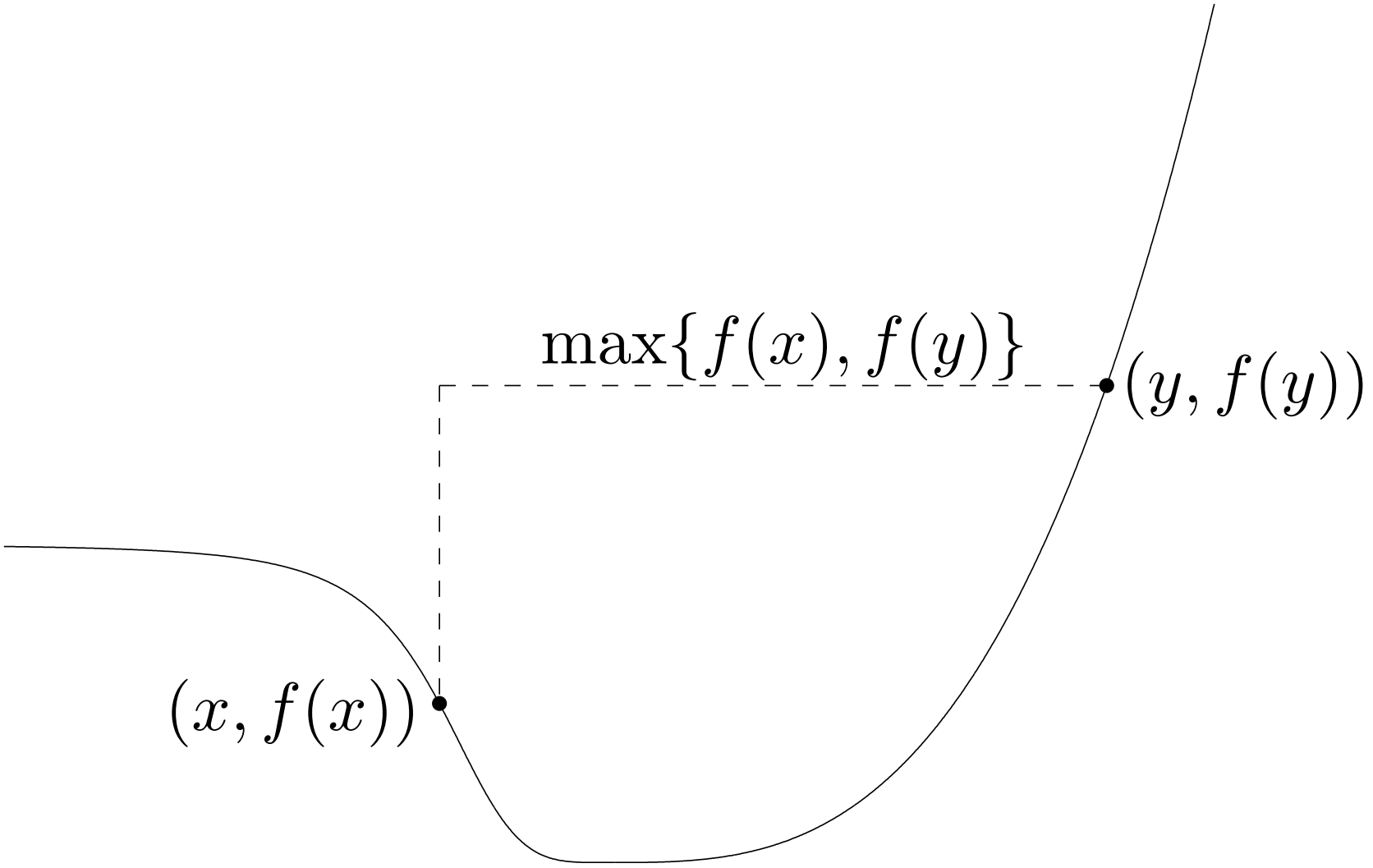

epi f
$(x, f(x))$
$(\nabla f(x), -1)$

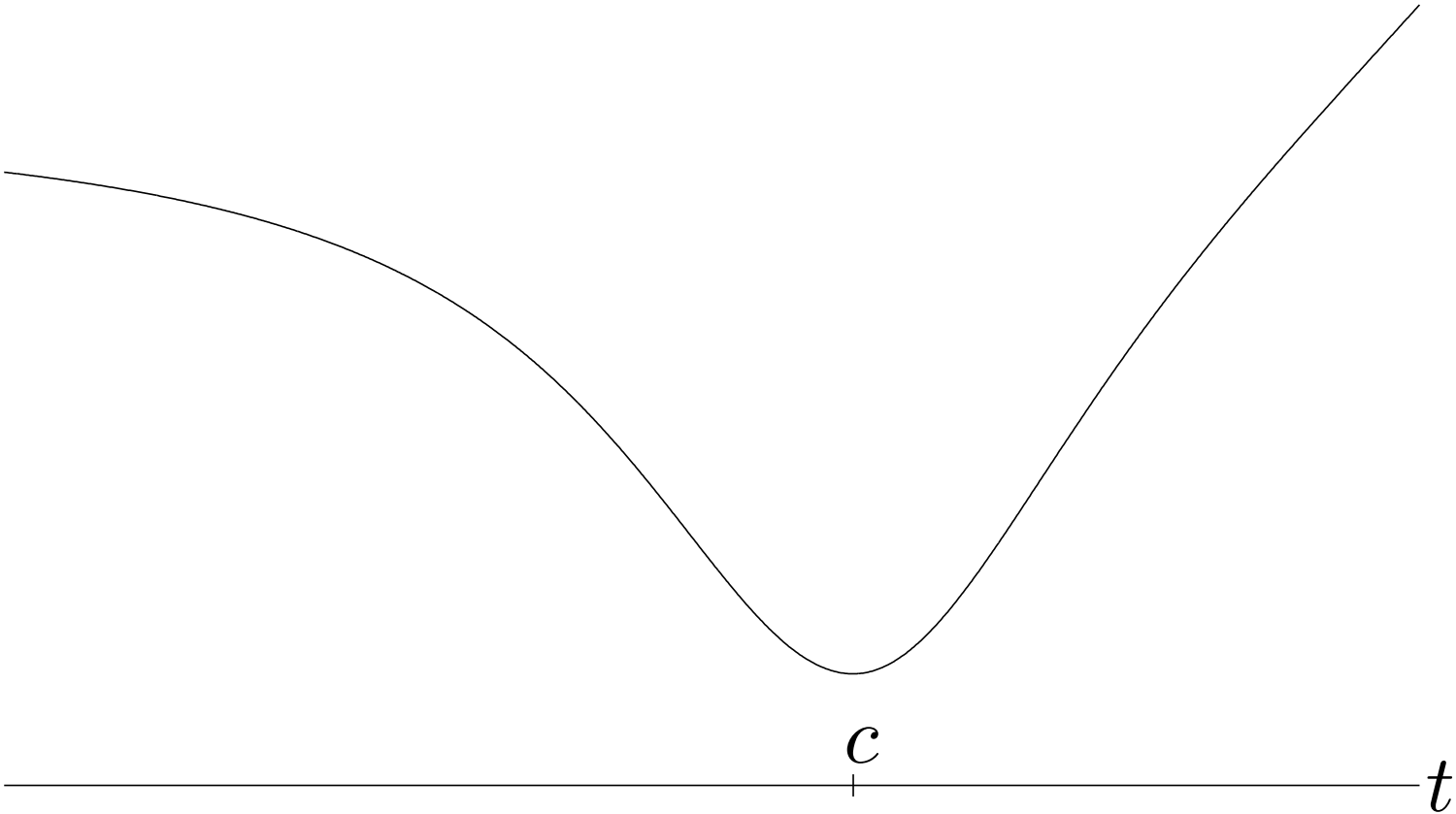

1
epi f
0
0
1
x

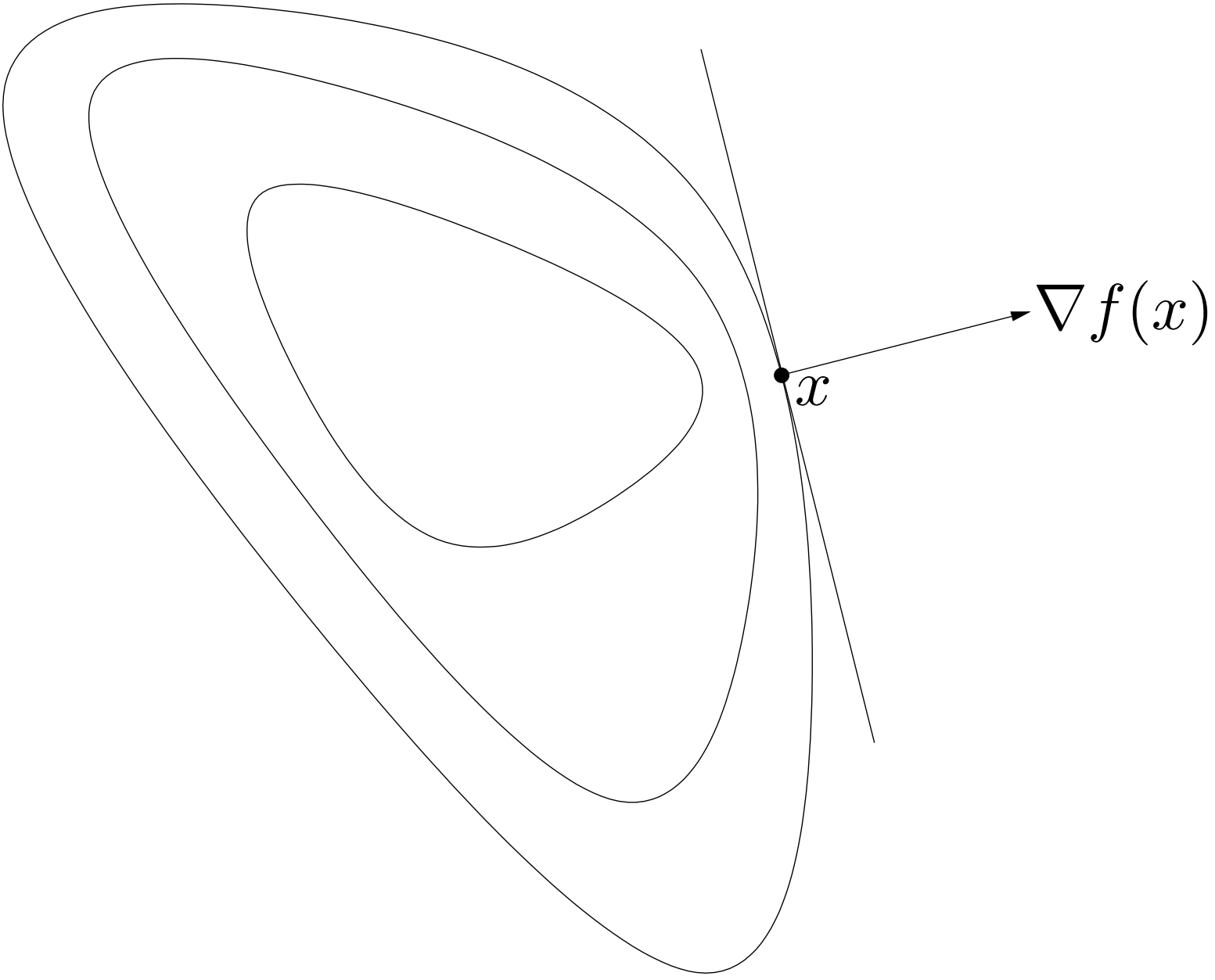

1
epi f
0
0
1
x


$f(x)$
xy
x
$(0, -f^*(y))$


β
α
a
b
c


$\max\{f(x), f(y)\}$
$(y, f(y))$
$(x, f(x))$


c
t


$\nabla f(x)$
x