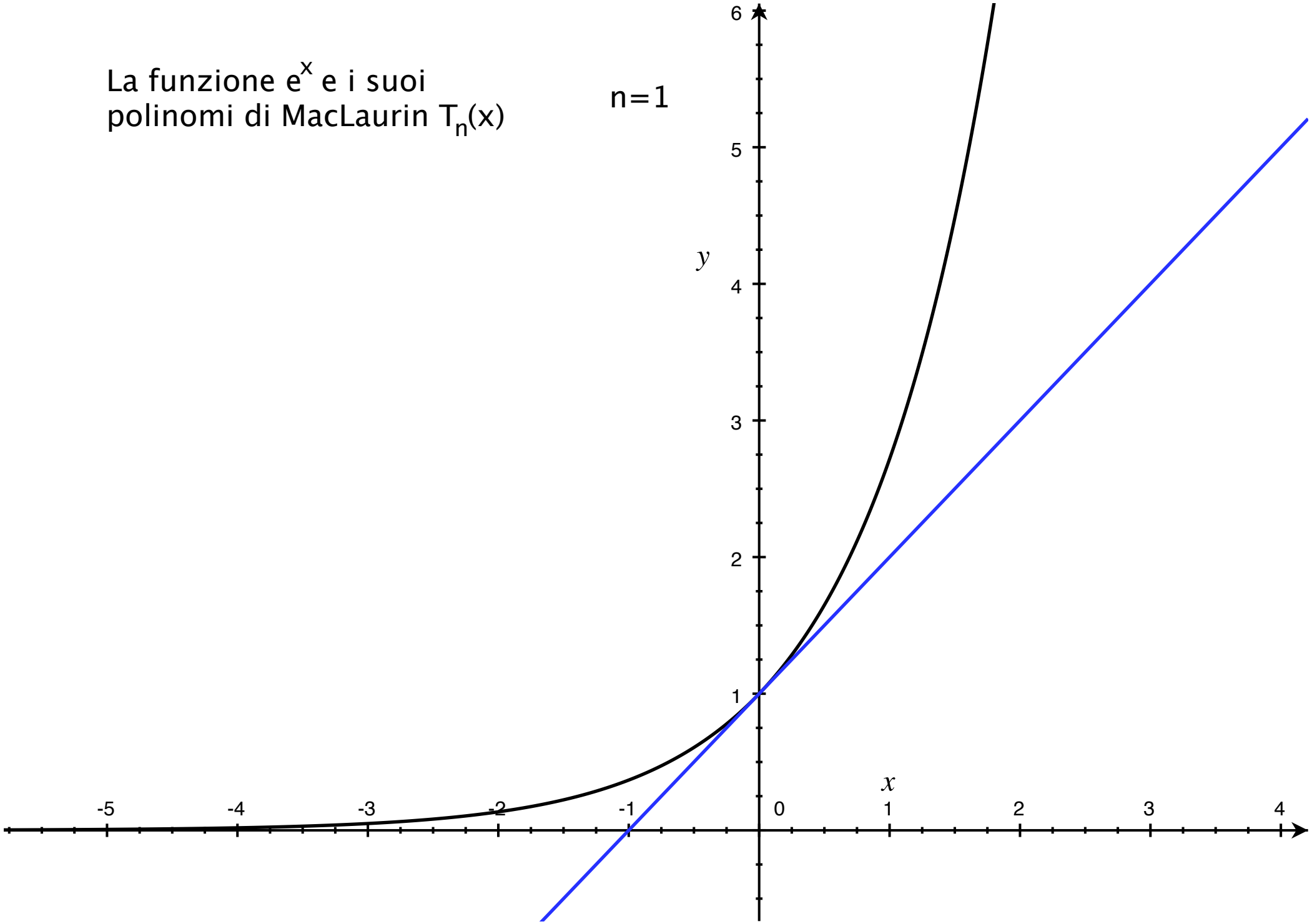
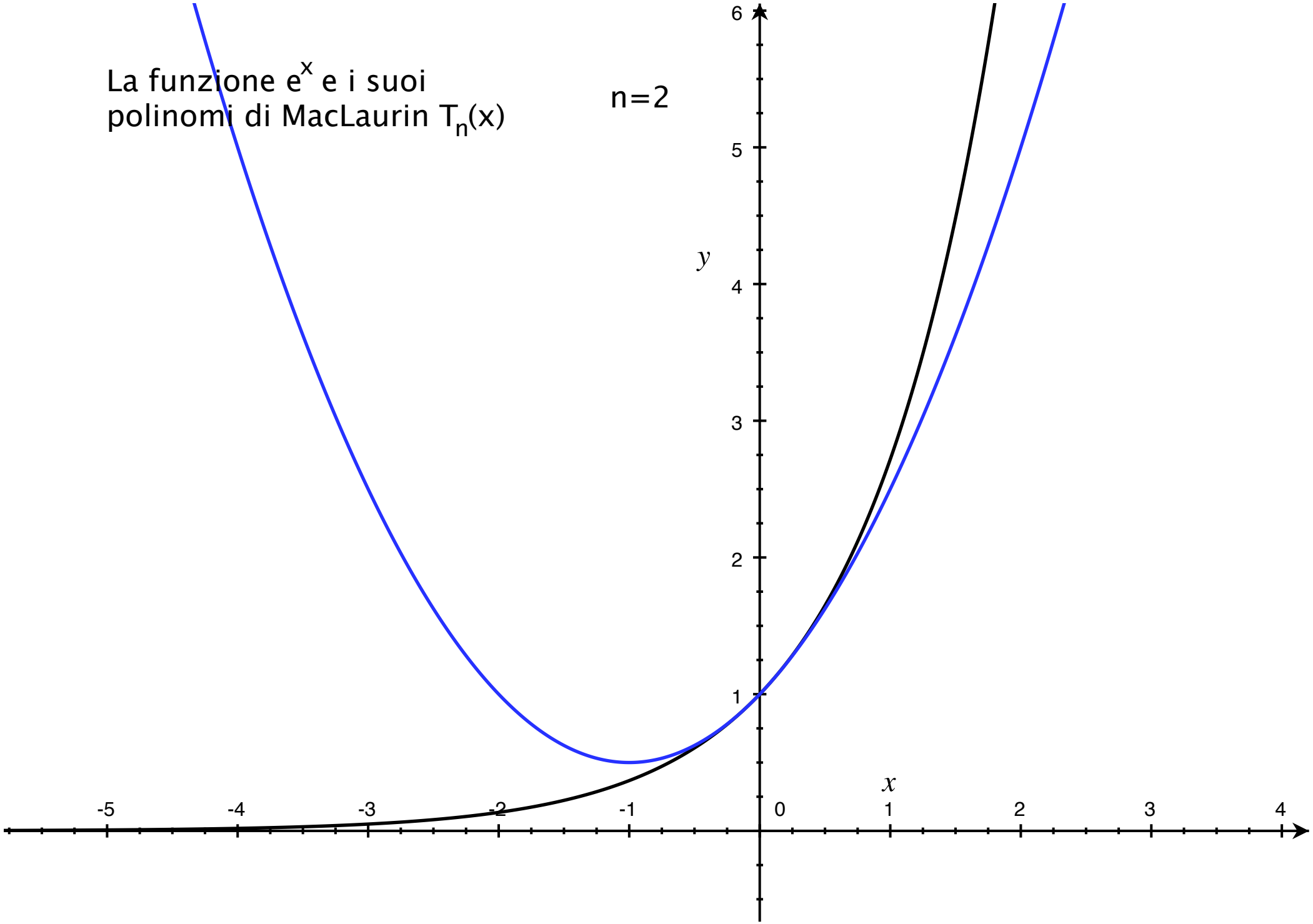
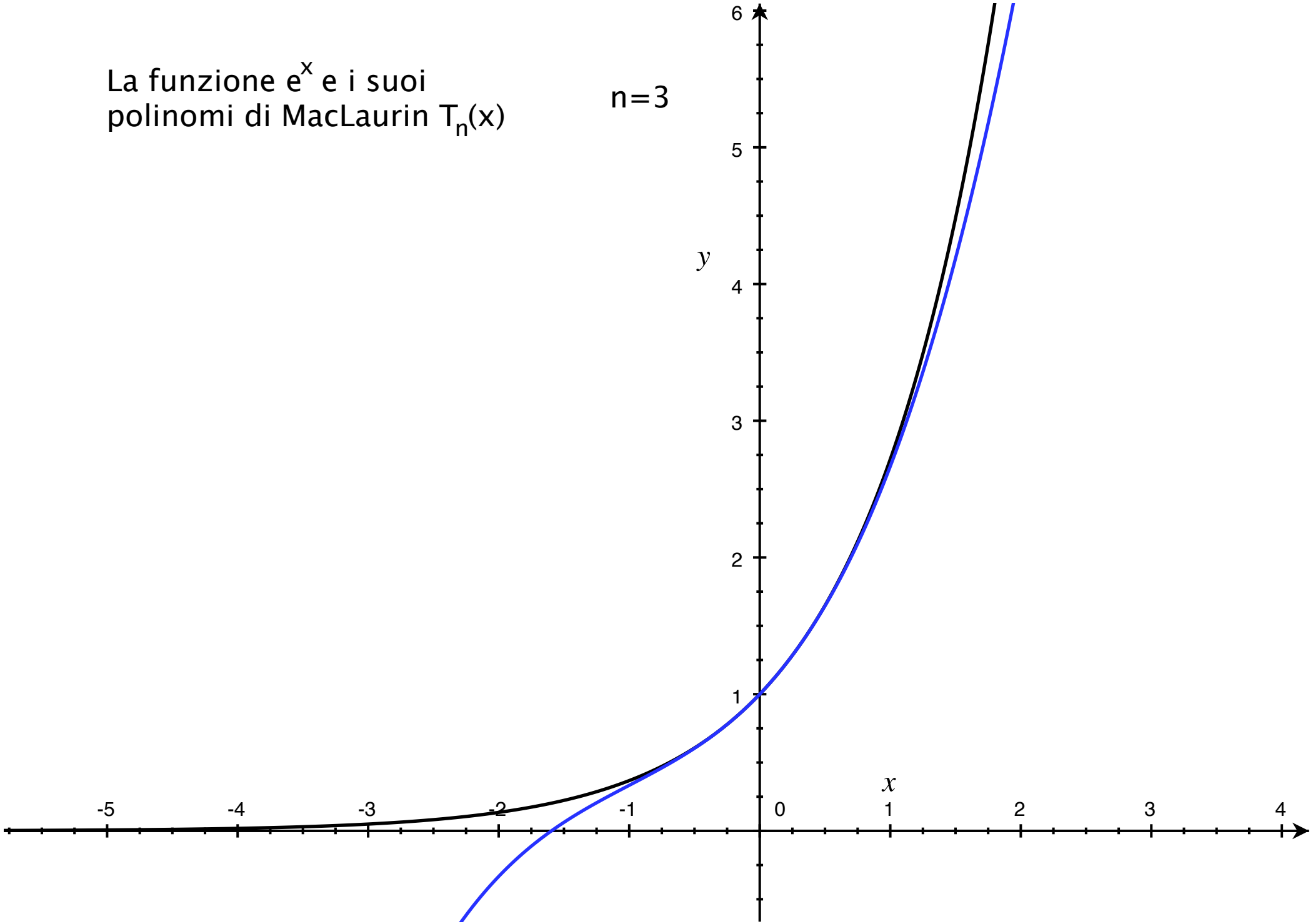
La funzione e^x e i suoi polinomi di MacLaurin $T_n(x)$

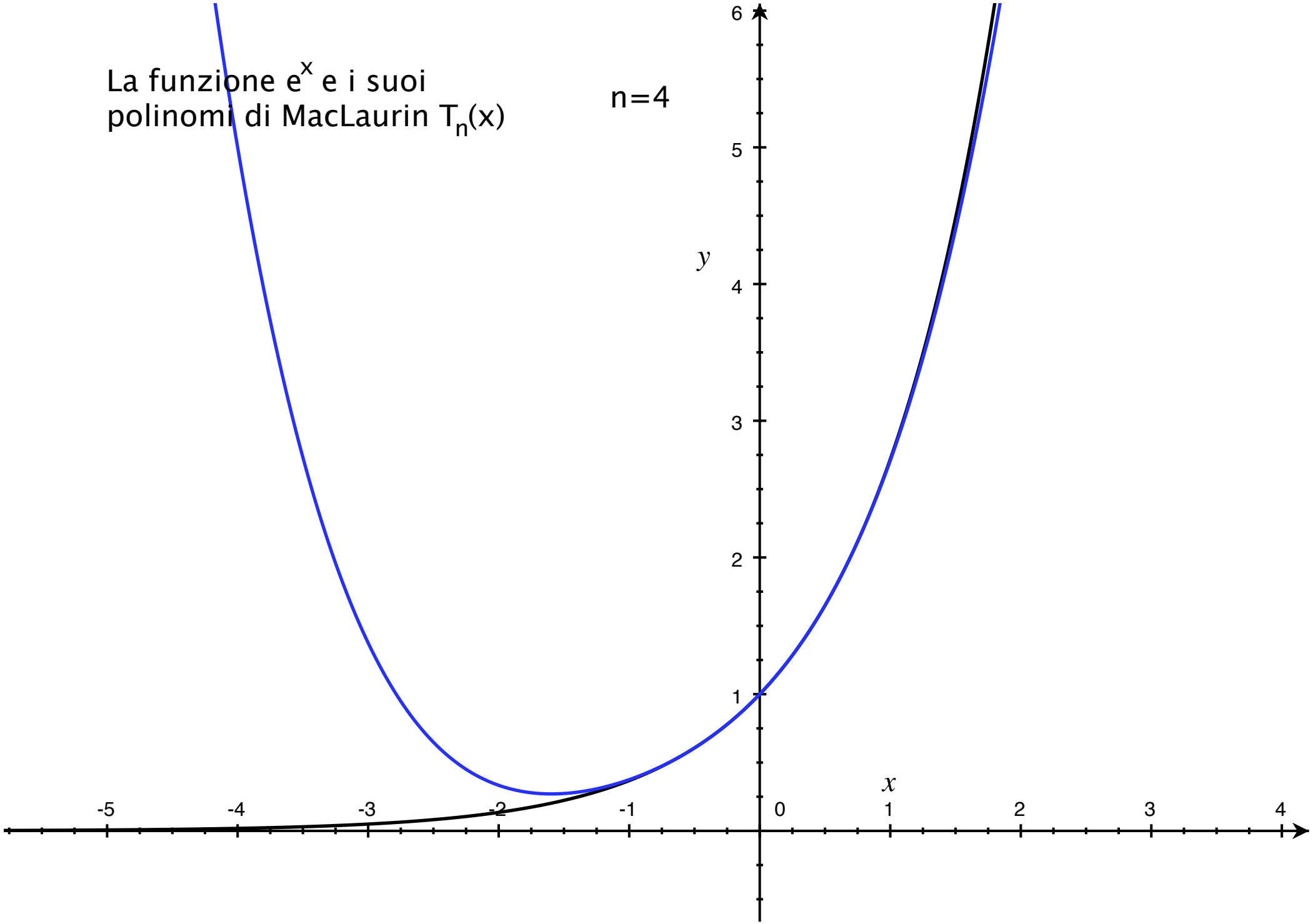


La funzione e^x e i suoi polinomi di MacLaurin $T_n(x)$

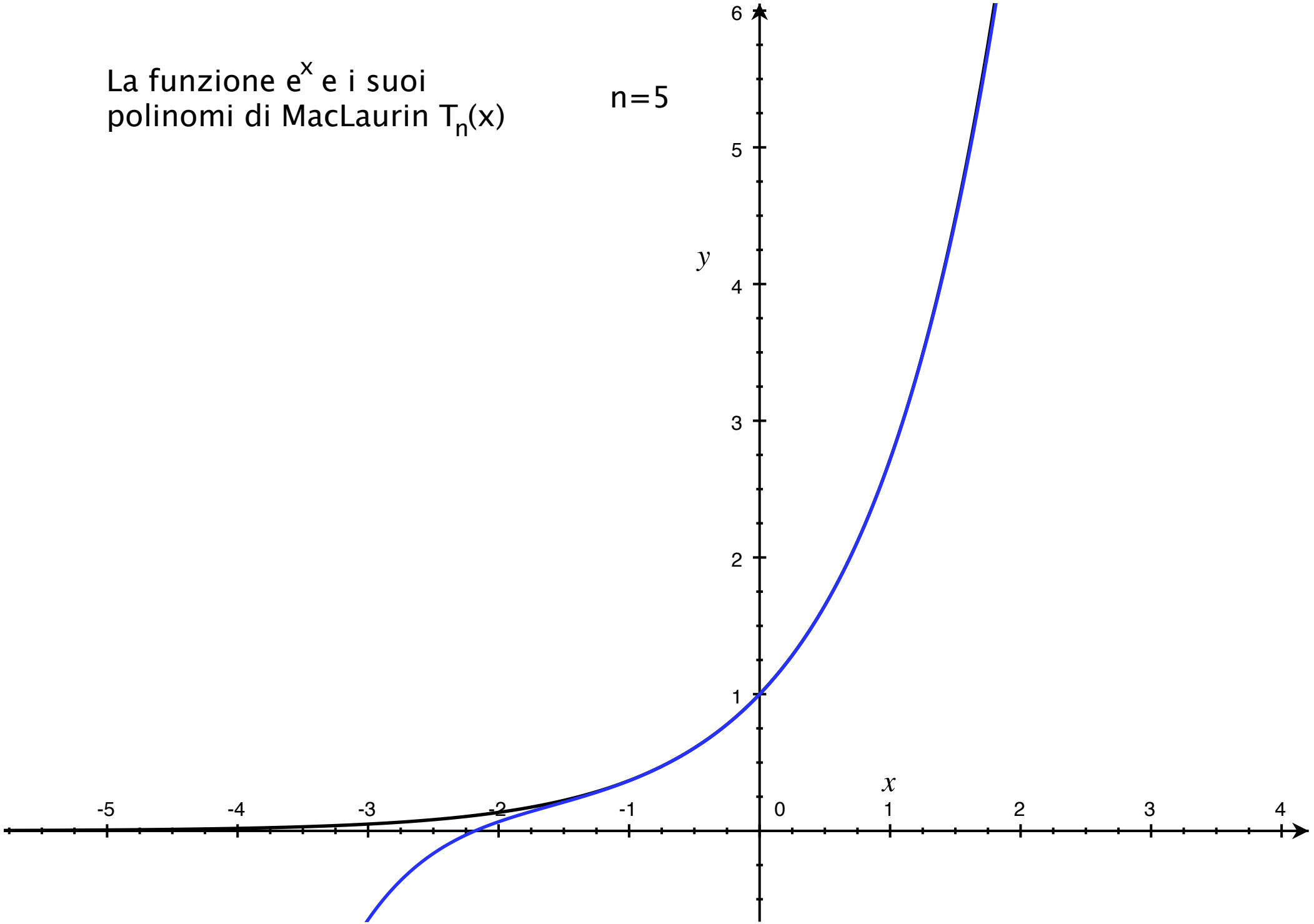


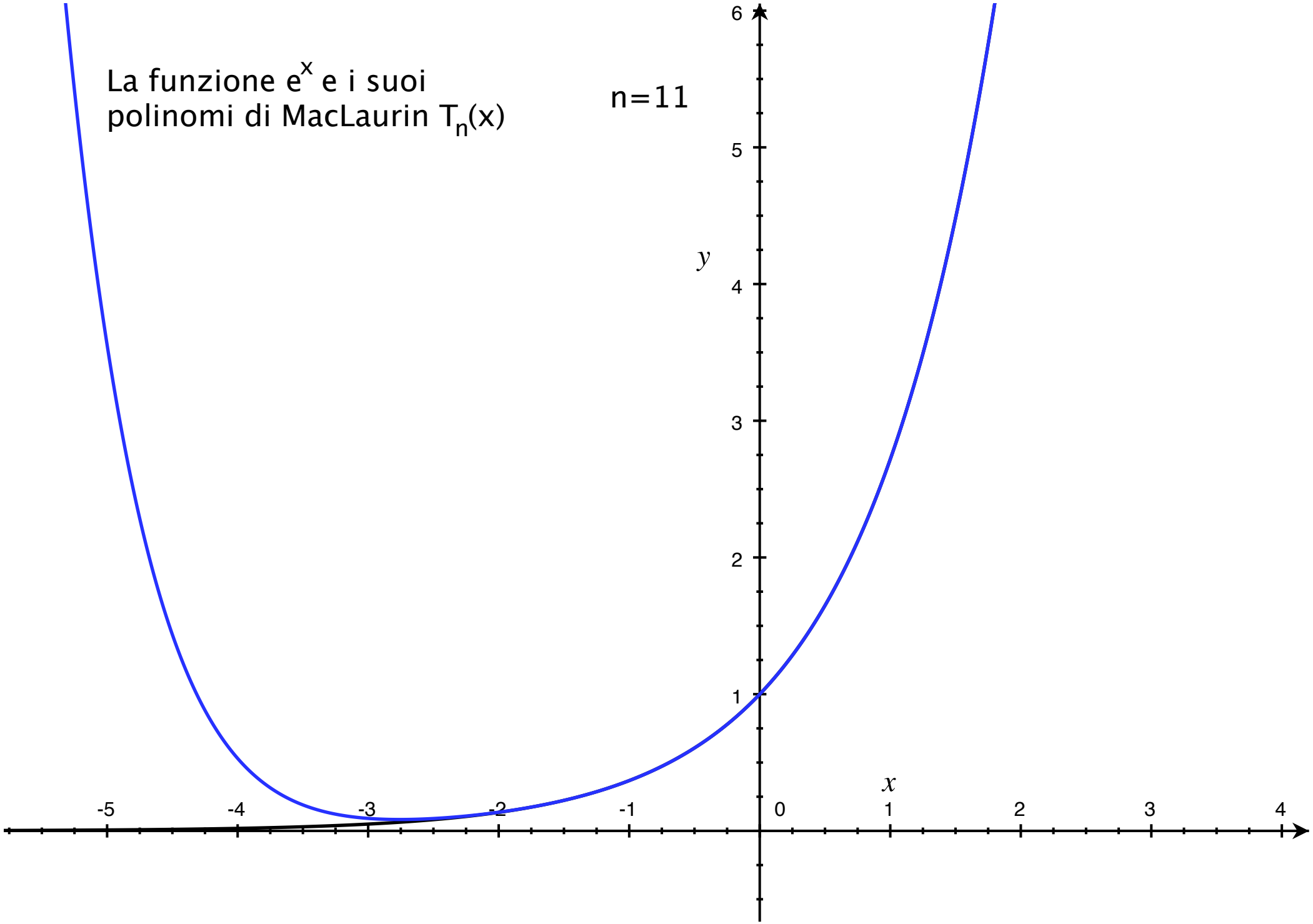
La funzione e^x e i suoi polinomi di MacLaurin $T_n(x)$




La funzione e^x e i suoi polinomi di MacLaurin $T_n(x)$
n=4
y
x
6
5
4
3
2
1
0
-5
-4
-3
-2
-1
1
2
3
4

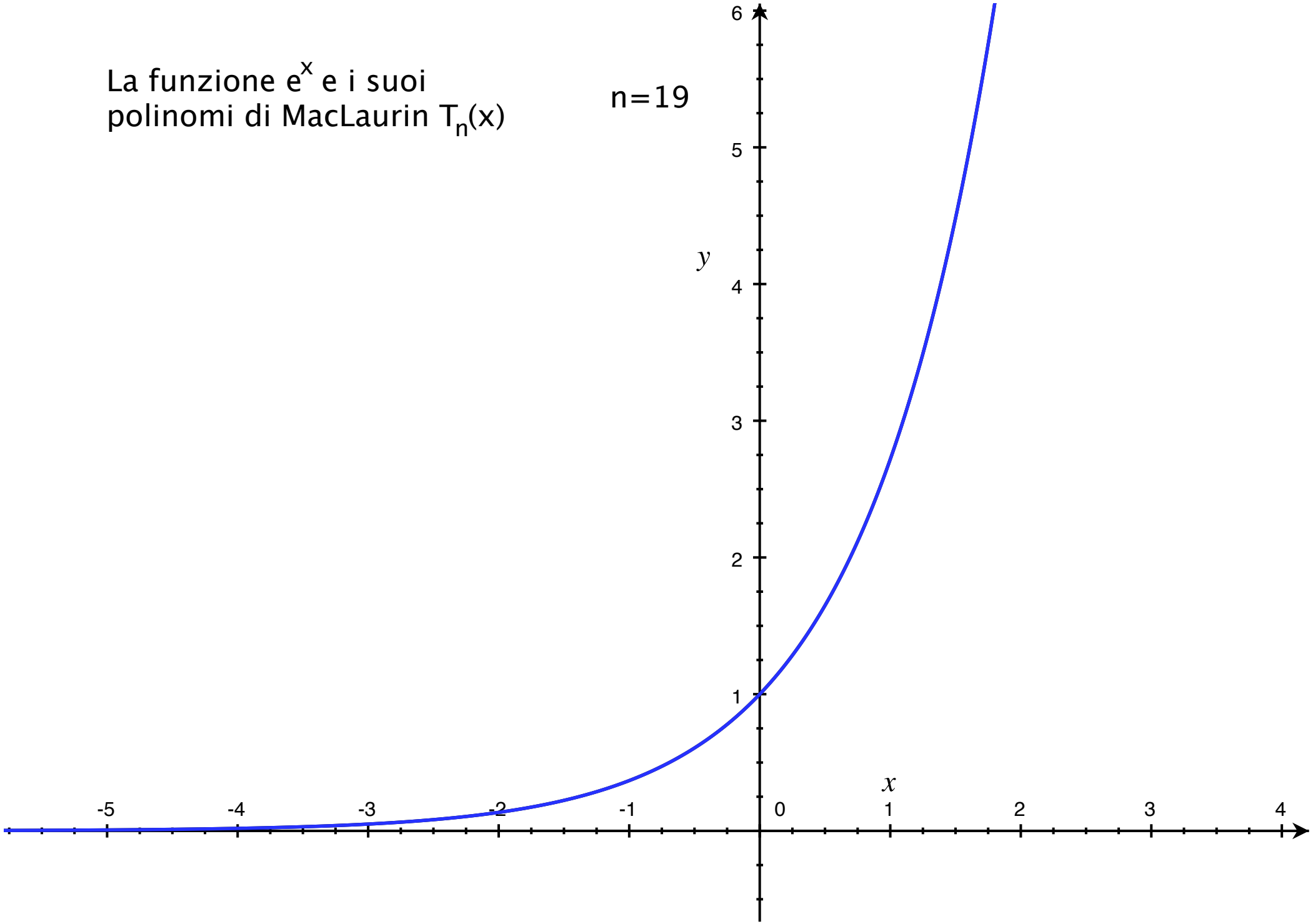
La funzione e^x e i suoi polinomi di MacLaurin $T_n(x)$

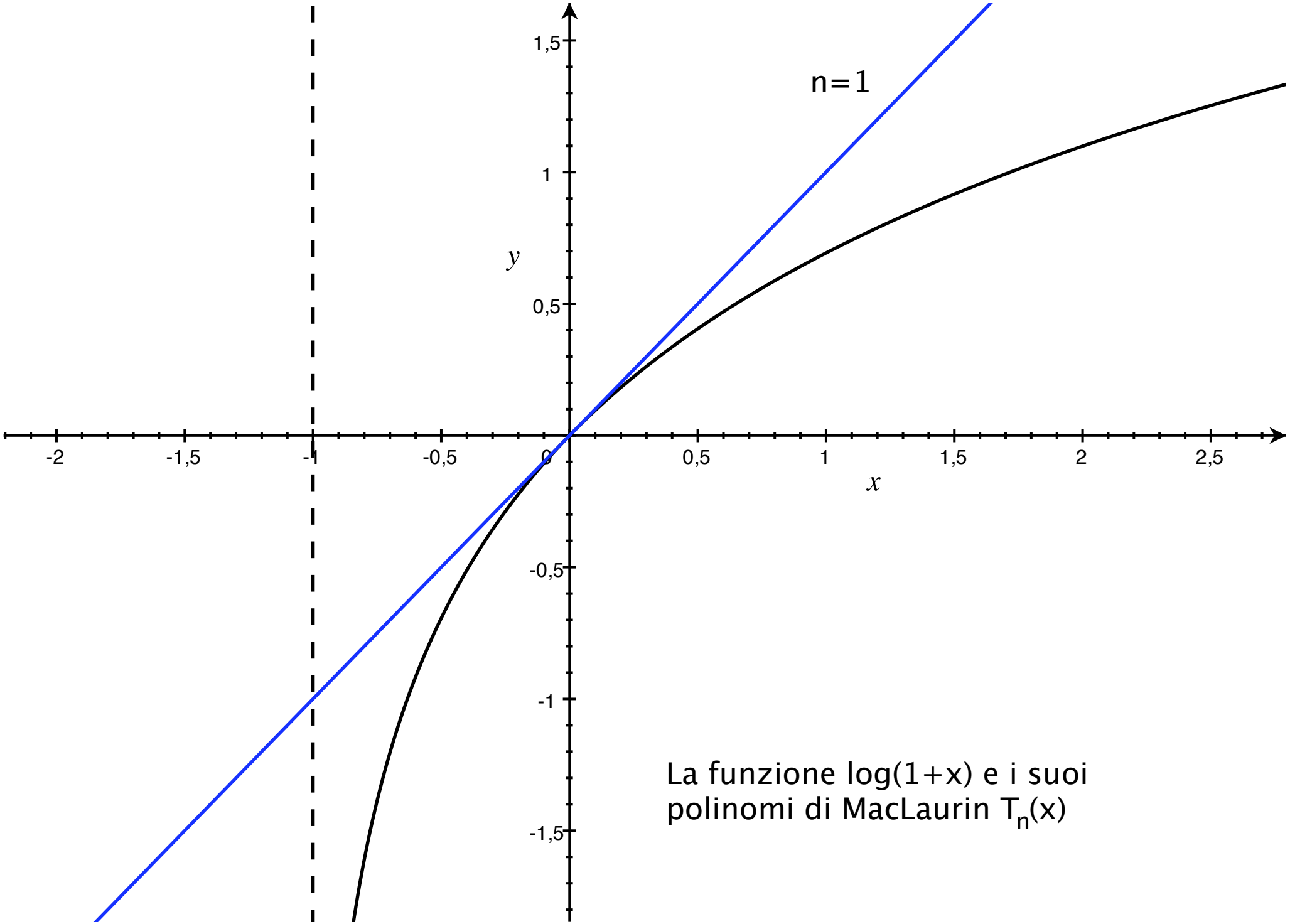



La funzione e^x e i suoi polinomi di MacLaurin $T_n(x)$
n=11
y
x
6
5
4
3
2
1
-5
-4
-3
-2
-1
0
1
2
3
4

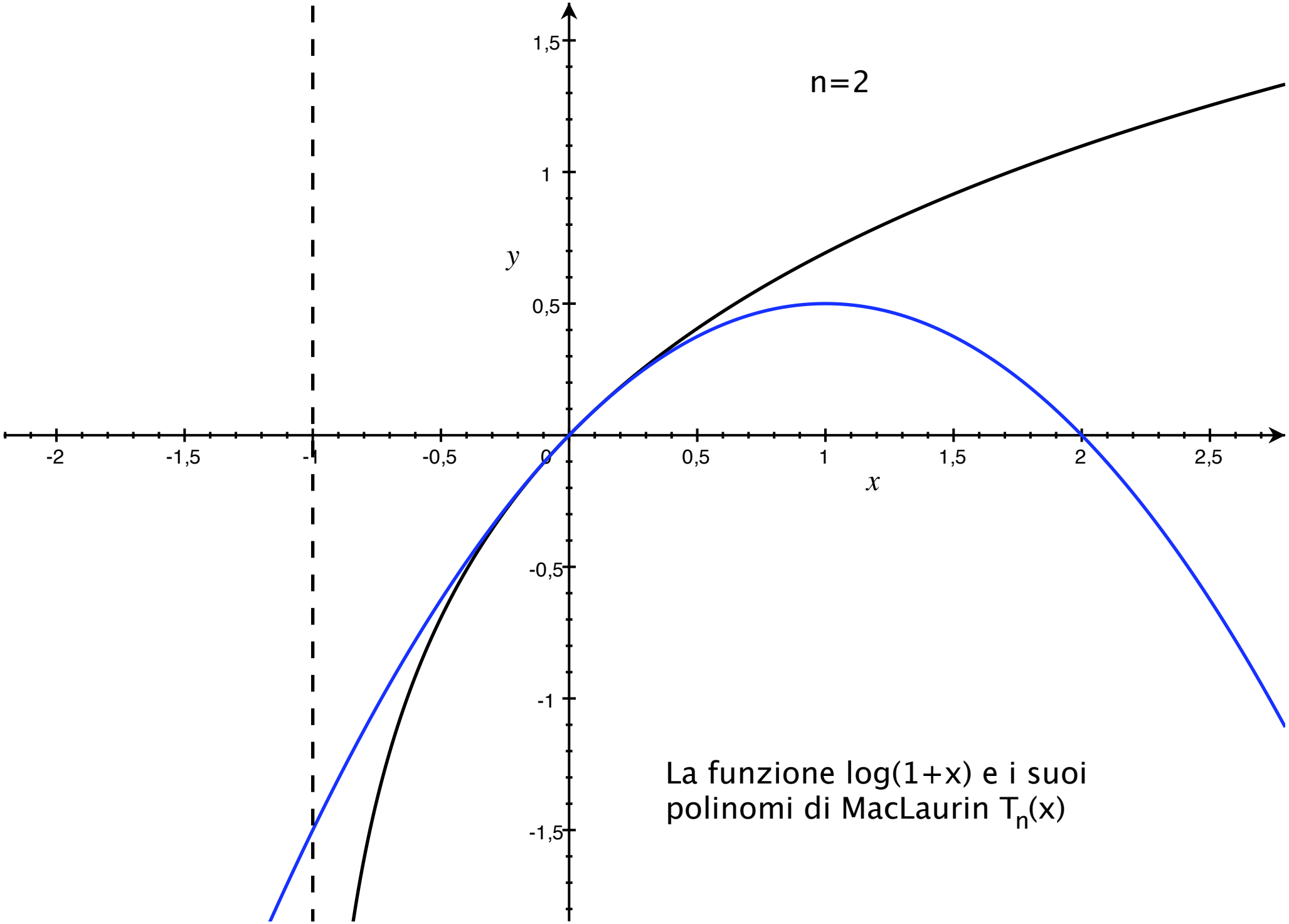
La funzione e^x e i suoi polinomi di MacLaurin $T_n(x)$

n=19

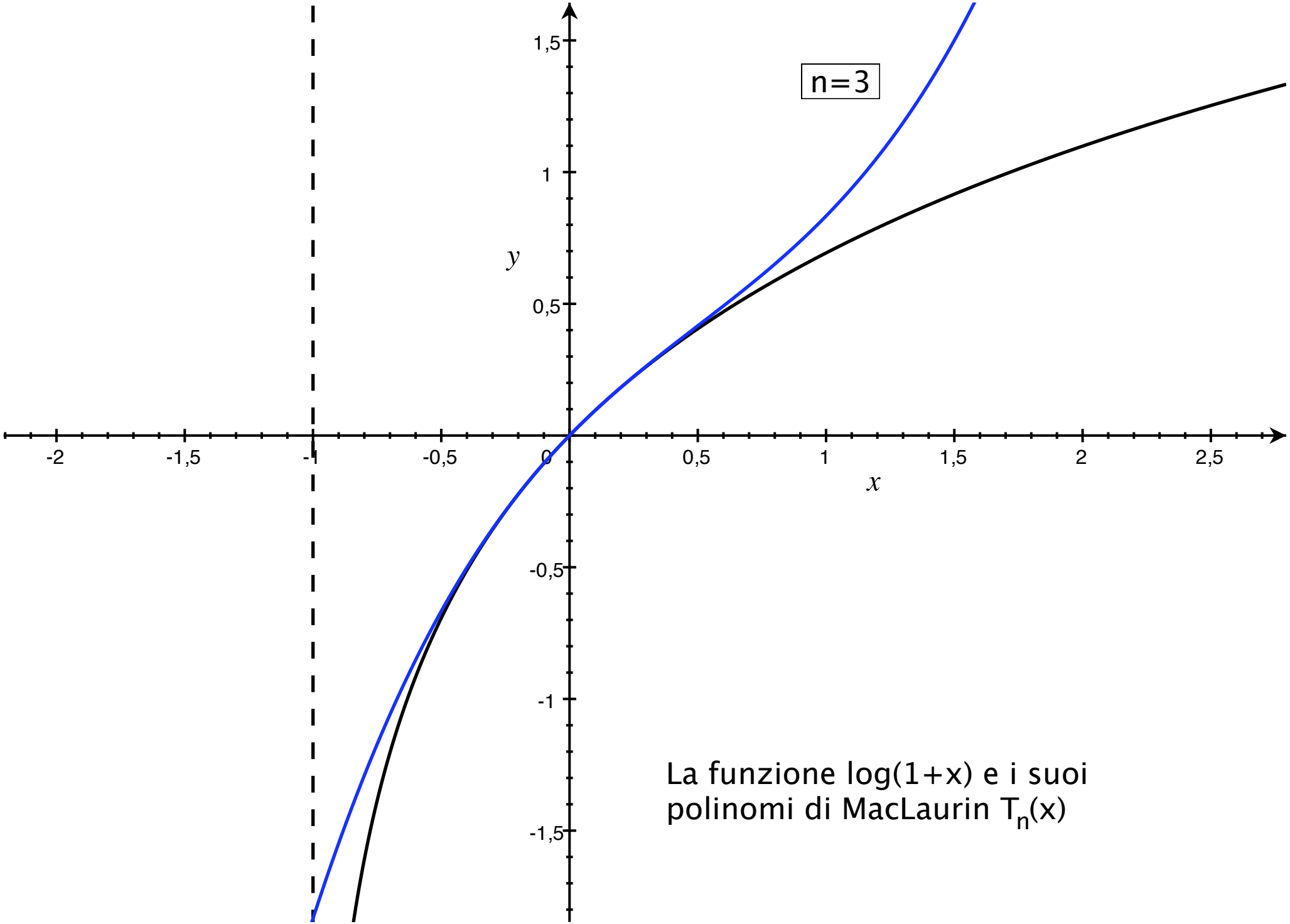




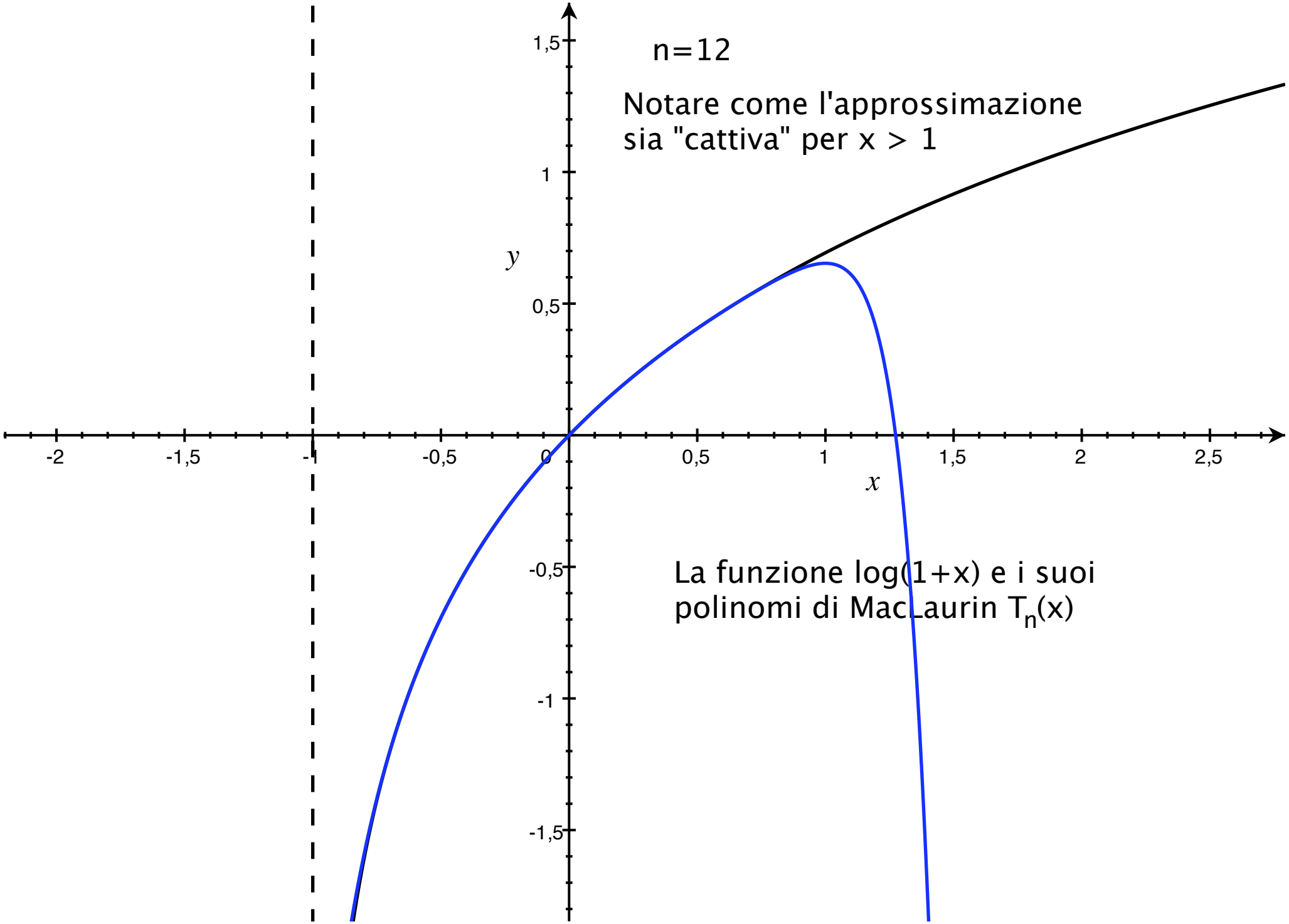
La funzione log(1+x) e i suoi polinomi di MacLaurin $T_n(x)$



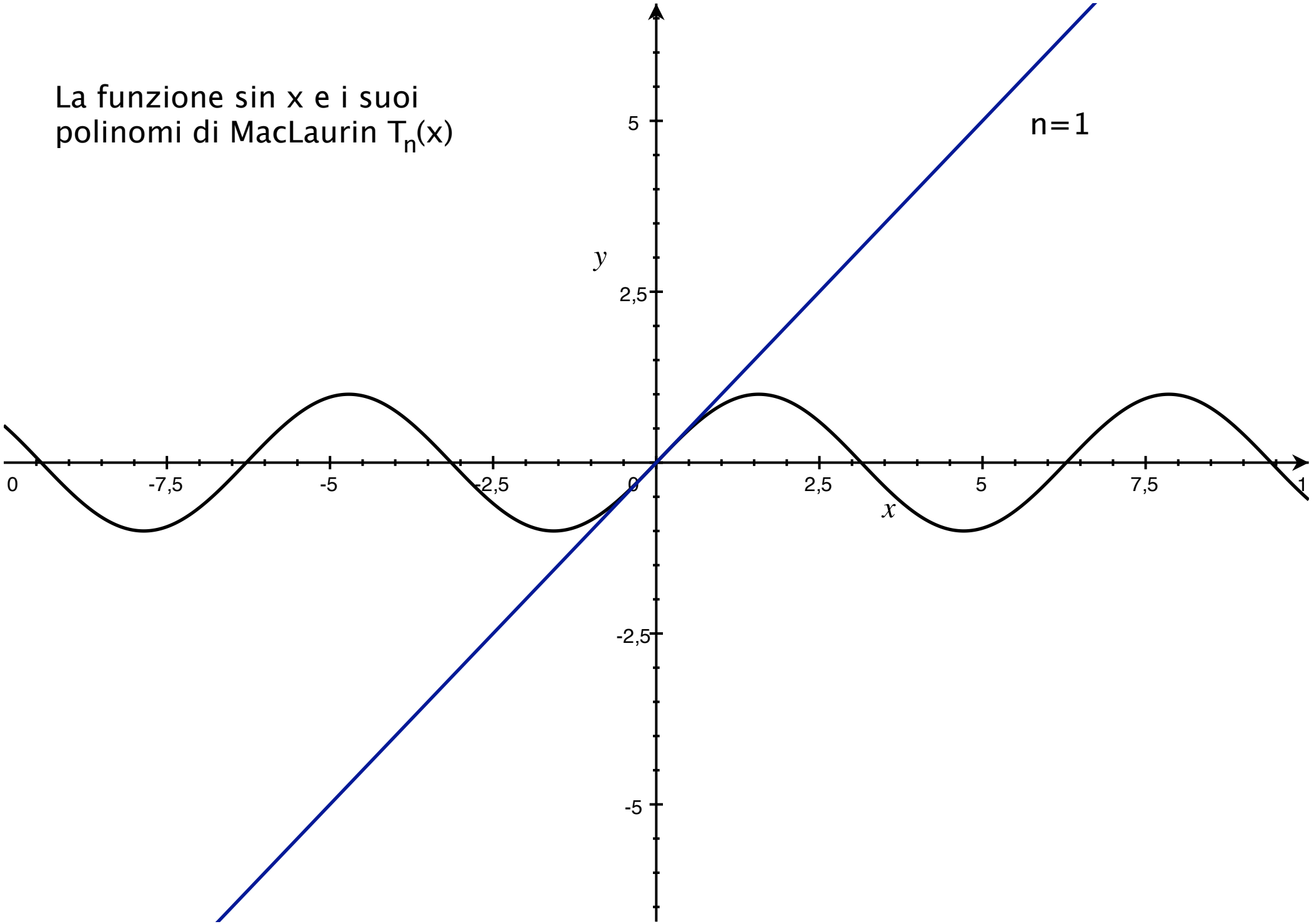
La funzione log(1+x) e i suoi polinomi di MacLaurin $T_n(x)$

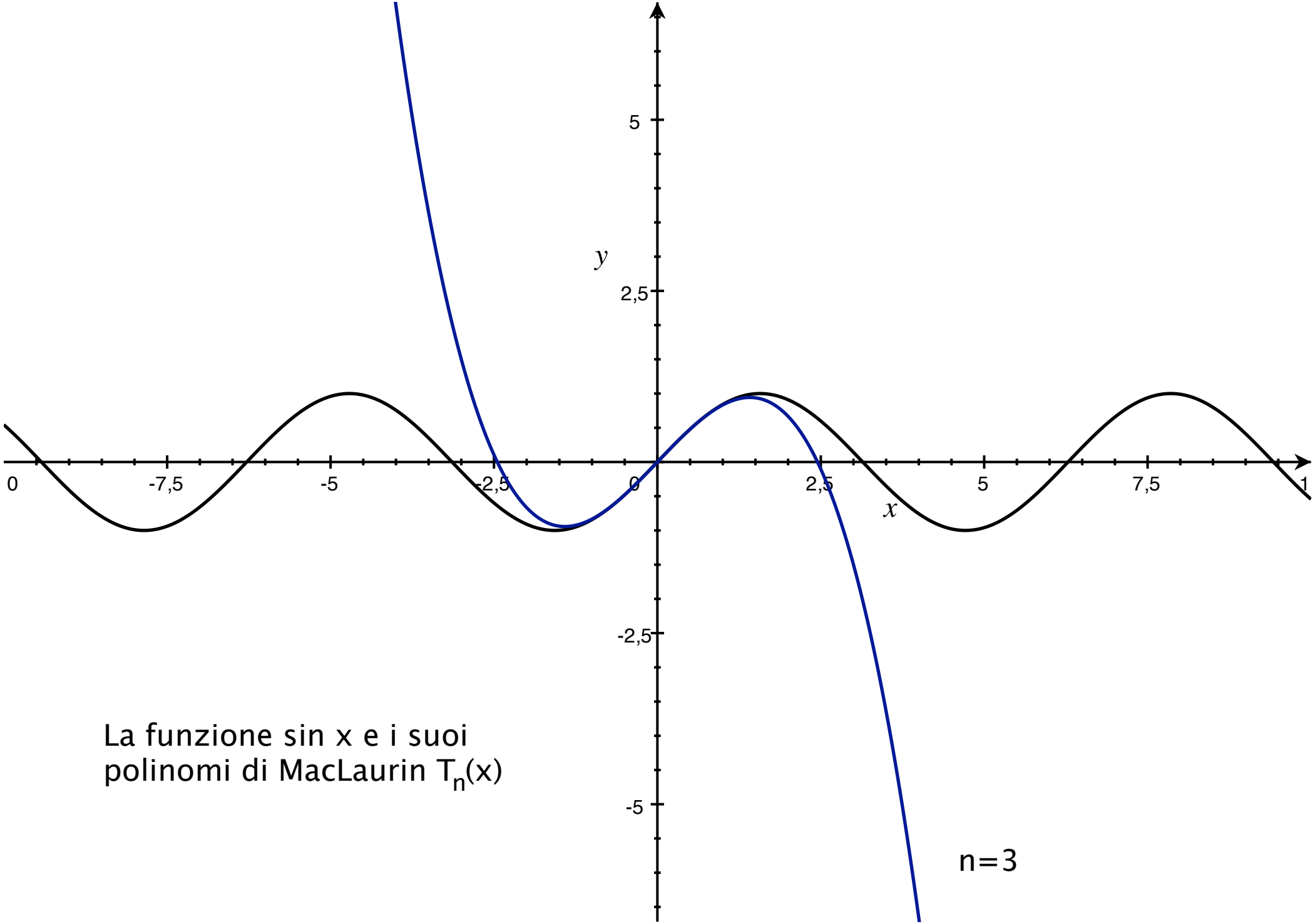


La funzione log(1+x) e i suoi polinomi di MacLaurin $T_n(x)$


n=12
Notare come l'approssimazione
sia "cattiva" per x > 1
La funzione log(1+x) e i suoi
polinomi di MacLaurin $T_n(x)$
y
x
1,5
1
0,5
-0,5
-1
-1,5
-2
-1,5
-1
-0,5
0
0,5
1
1,5
2
2,5

La funzione sin x e i suoi polinomi di MacLaurin $T_n(x)$

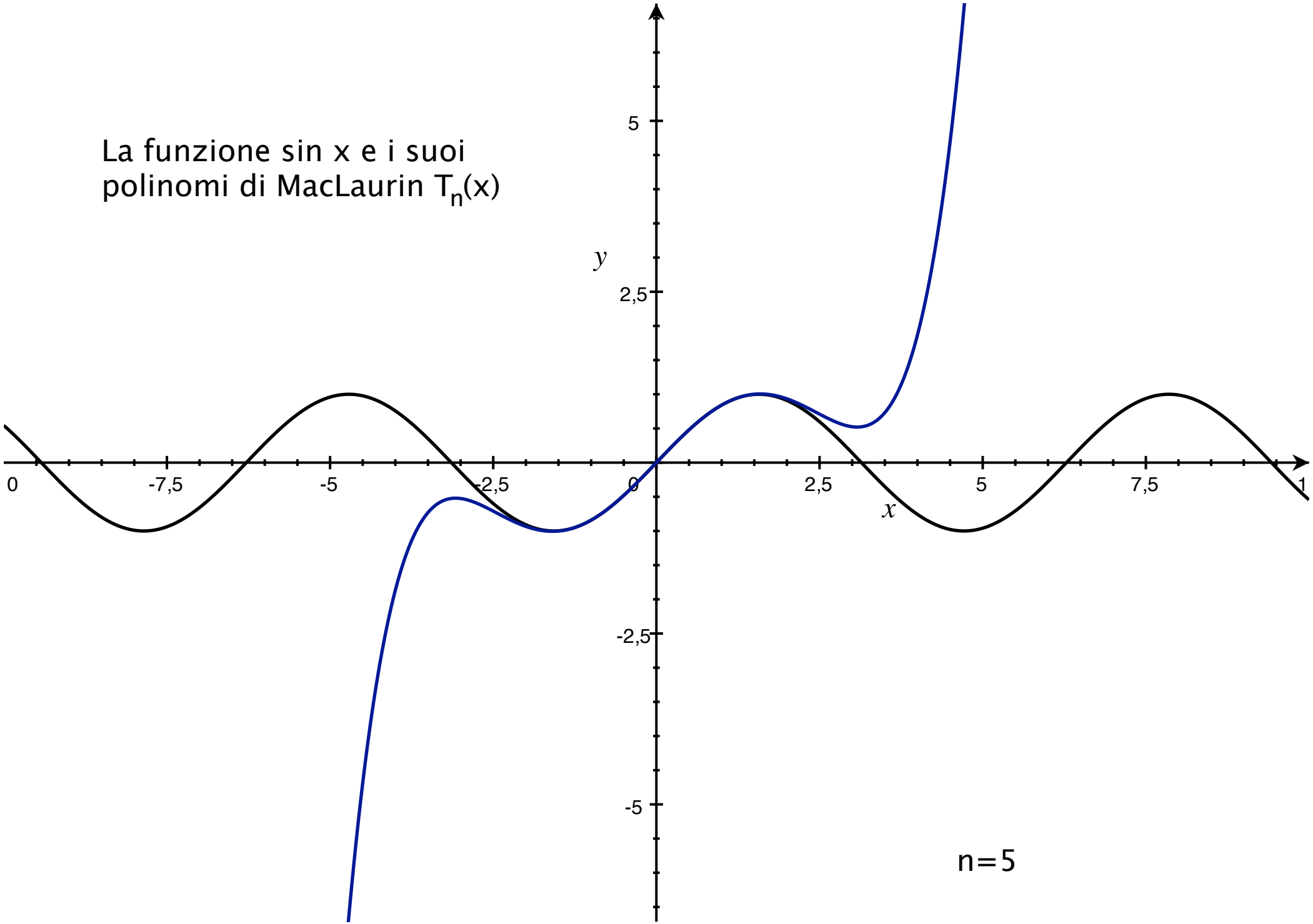




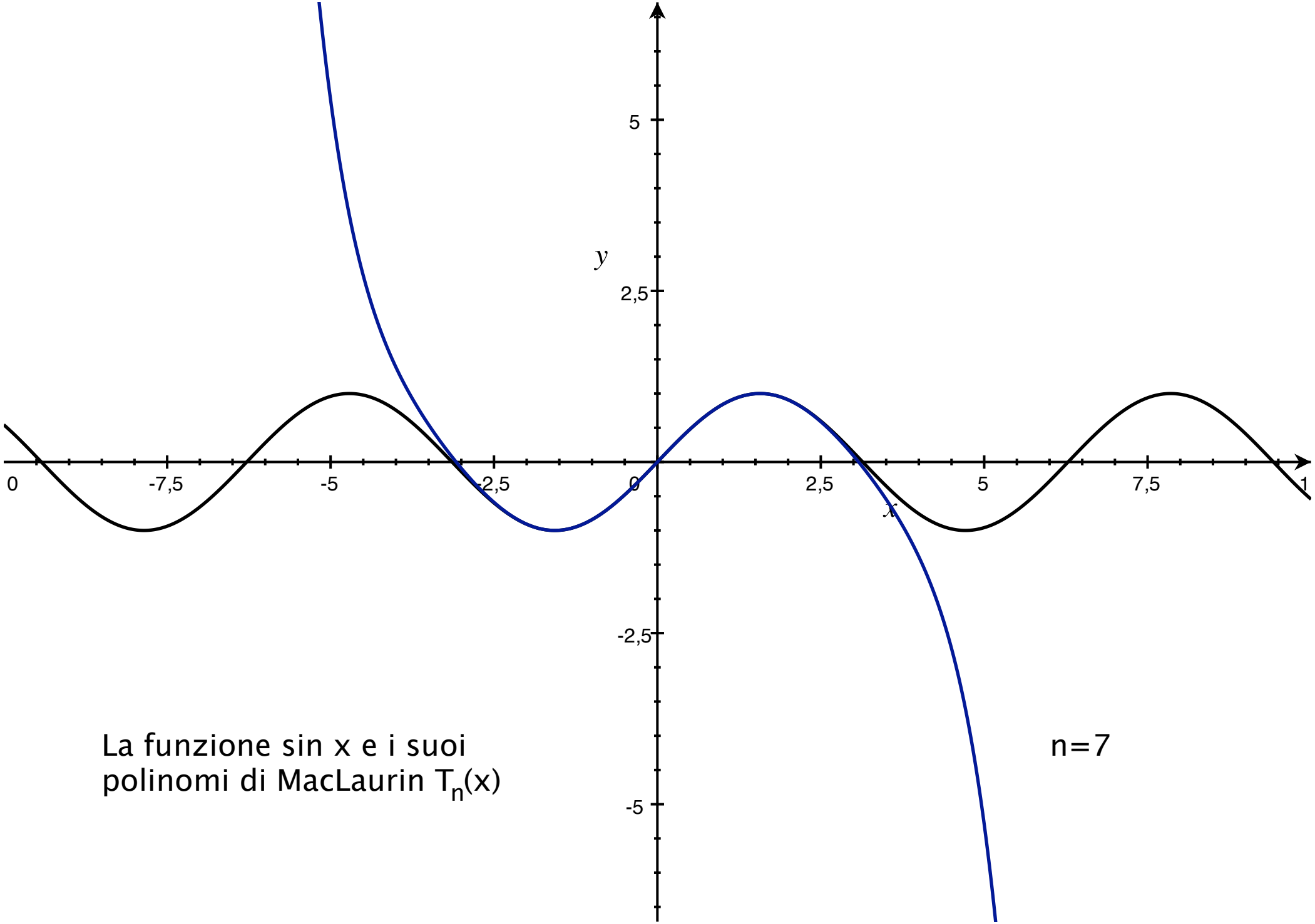
La funzione sin x e i suoi polinomi di MacLaurin $T_n(x)$

n=3

La funzione sin x e i suoi polinomi di MacLaurin $T_n(x)$

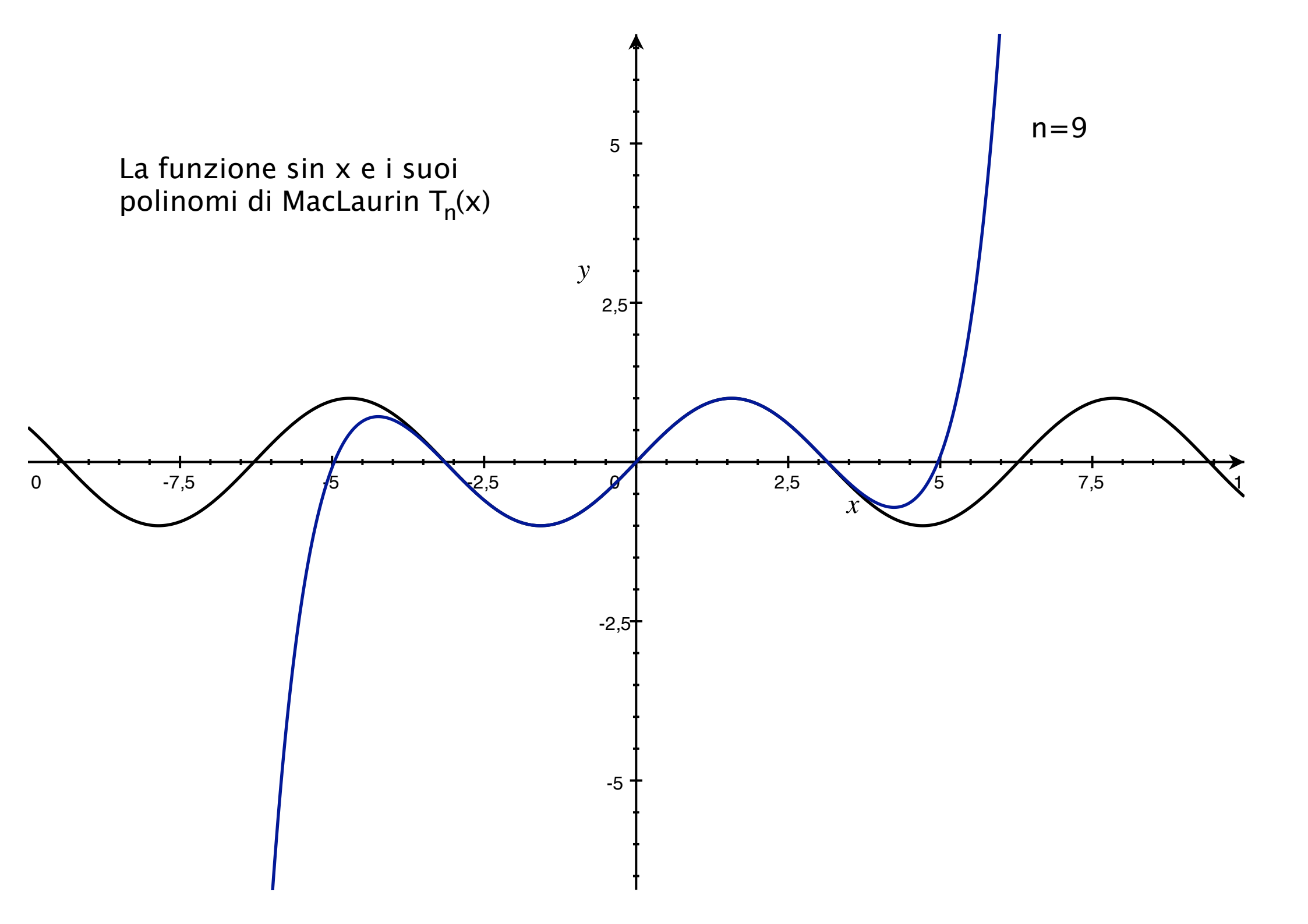


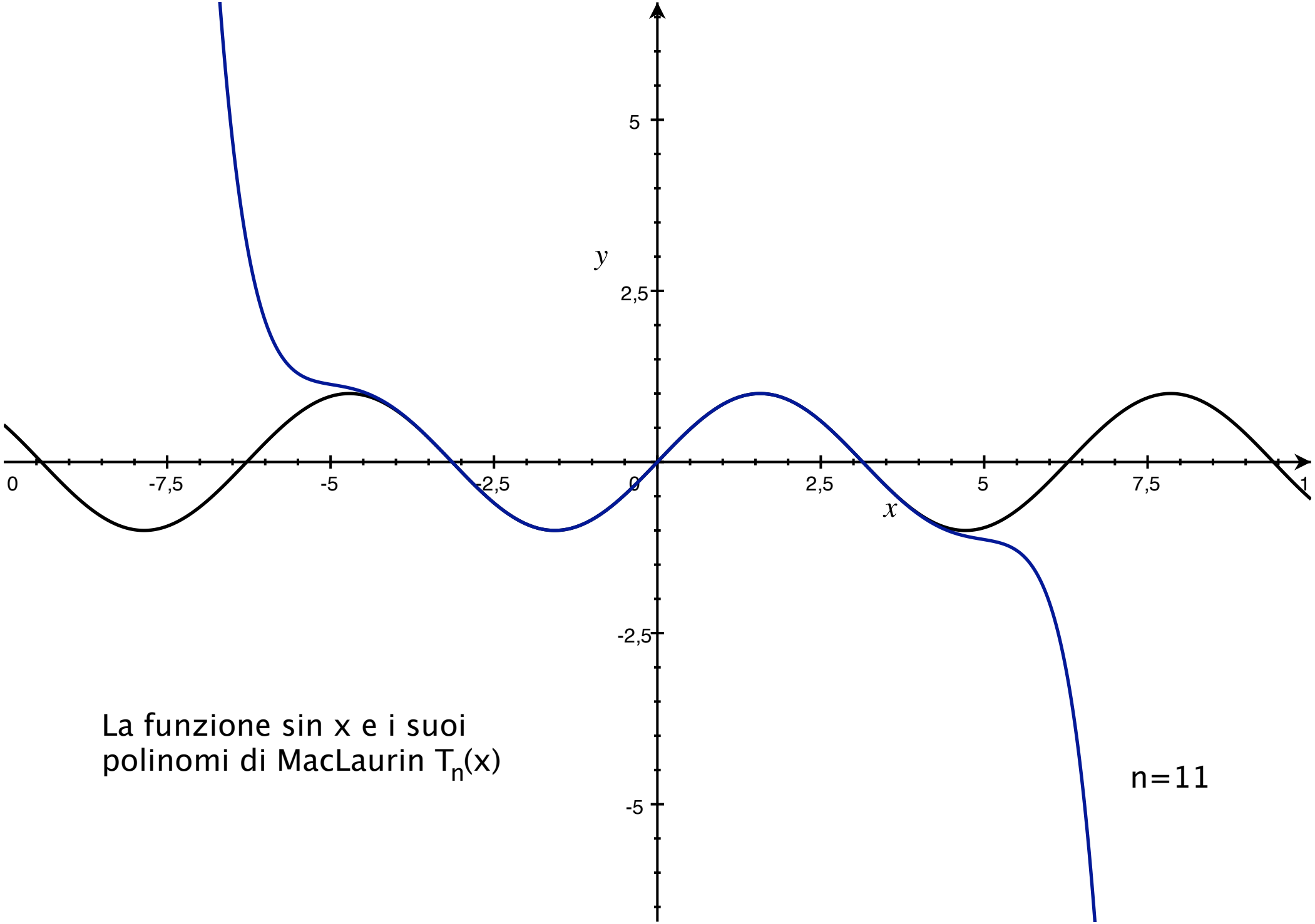
n=5



La funzione sin x e i suoi polinomi di MacLaurin $T_n(x)$

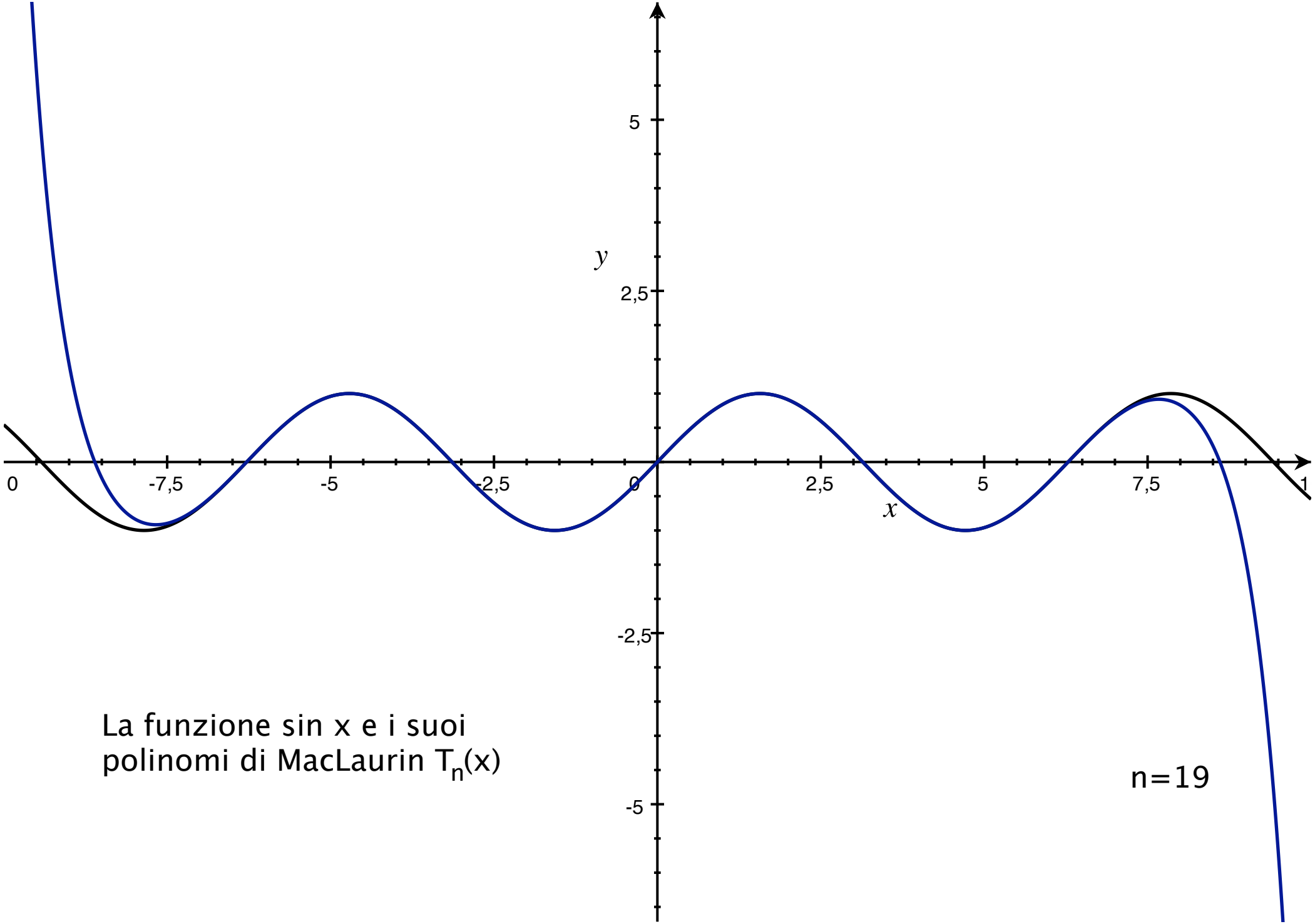
n=7


La funzione sin x e i suoi polinomi di MacLaurin $T_n(x)$
n=9
y
x
5
2,5
-2,5
-5
0
-7,5
-5
-2,5
0
2,5
5
7,5
1



La funzione sin x e i suoi polinomi di MacLaurin $T_n(x)$

n=11



La funzione sin x e i suoi polinomi di MacLaurin $T_n(x)$

n=19