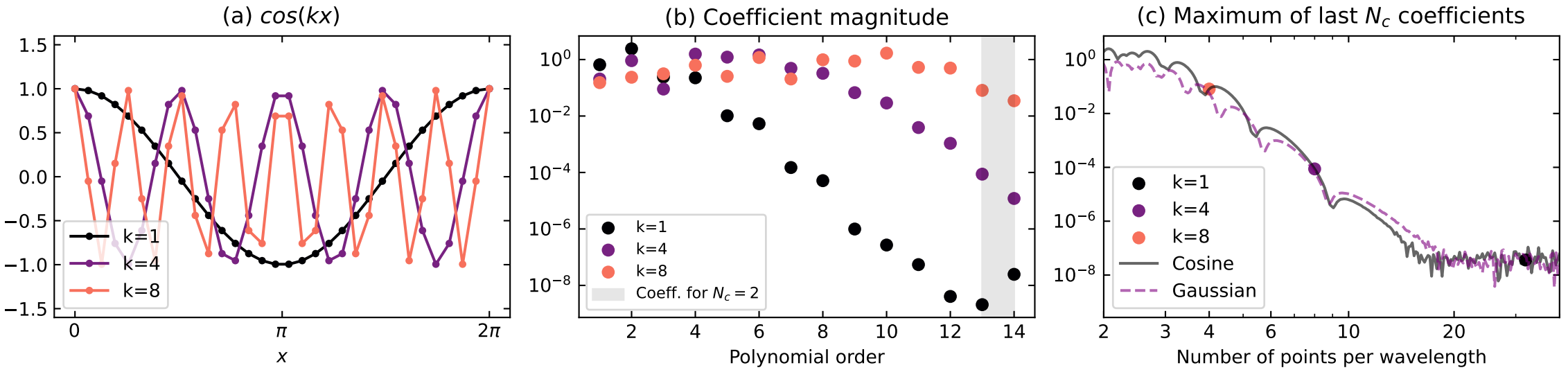
(a) cos(kx)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
0
π
2π
x
k=1
k=4
k=8
(b) Coefficient magnitude
10^0
10^{-2}
10^{-4}
10^{-6}
10^{-8}
2
4
6
8
10
12
14
Polynomial order
k=1
k=4
k=8
Coeff. for $N_c = 2$
(c) Maximum of last N_c coefficients
10^0
10^{-2}
10^{-4}
10^{-6}
10^{-8}
2
3
4
6
10
20
Number of points per wavelength
k=1
k=4
k=8
Cosine
Gaussian