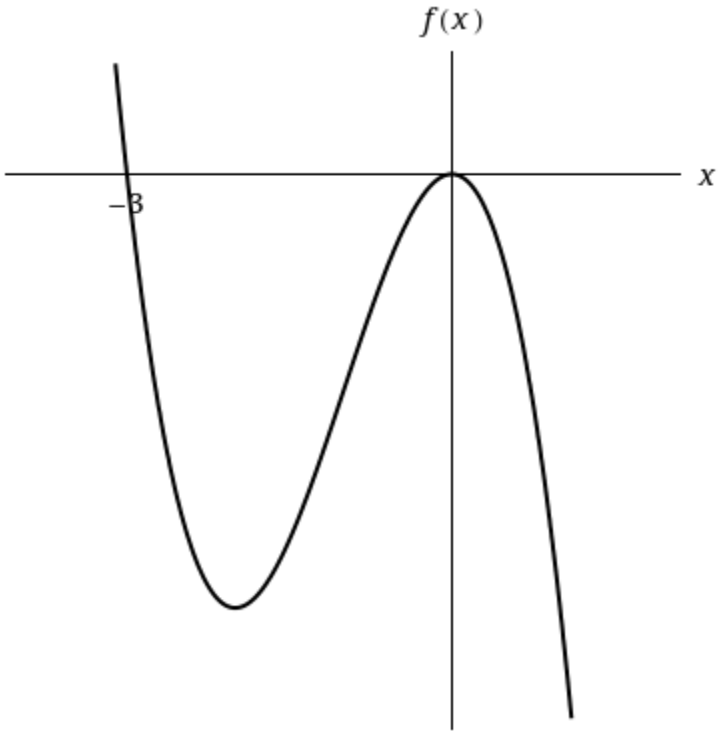
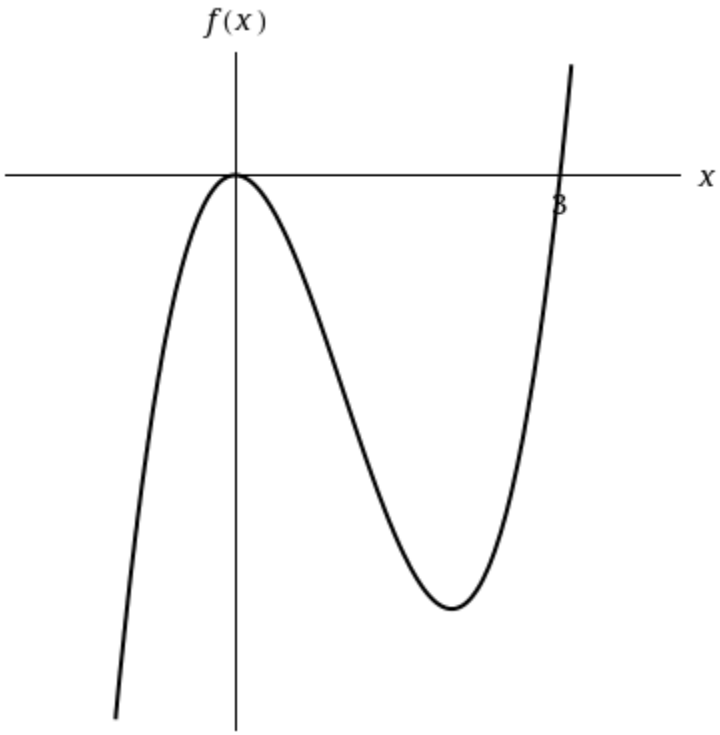
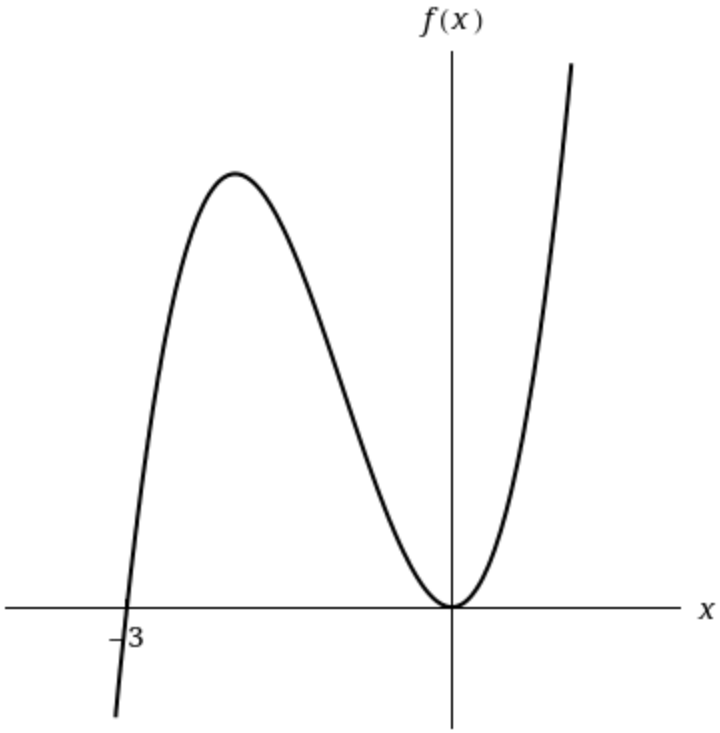
1. [–/2 Points] **DETAILS** SCALCET9 4.5.001.

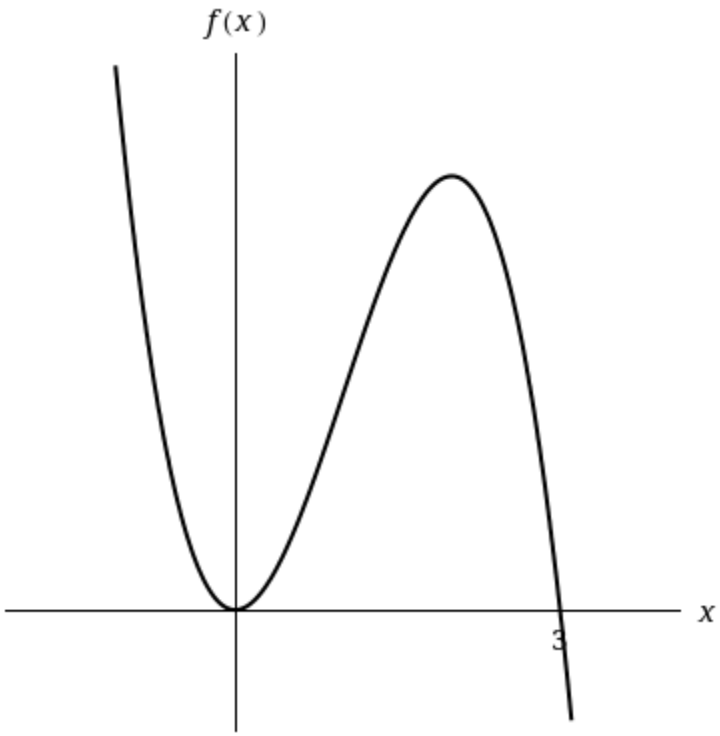
Use the guidelines of this section to sketch the curve.

$f(x) = x^3 + 3x^2$







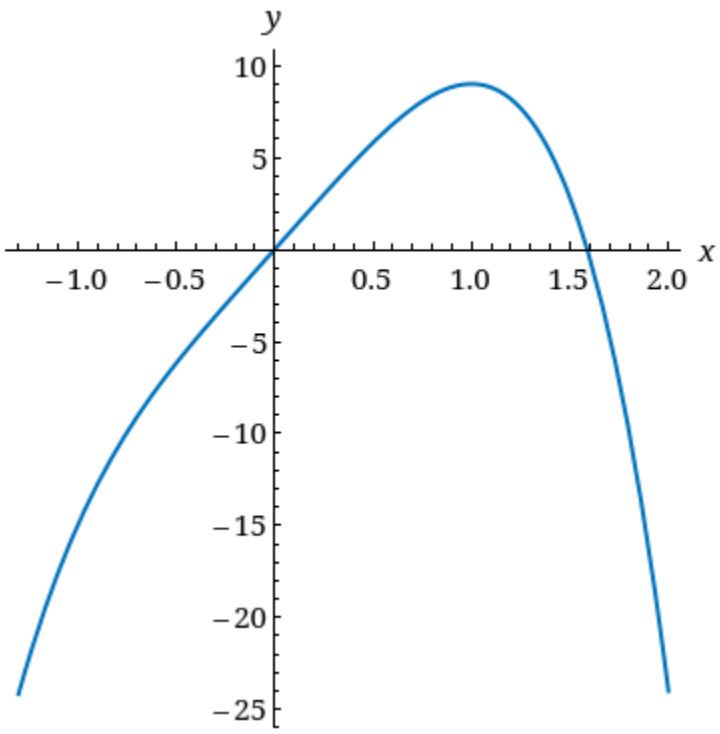


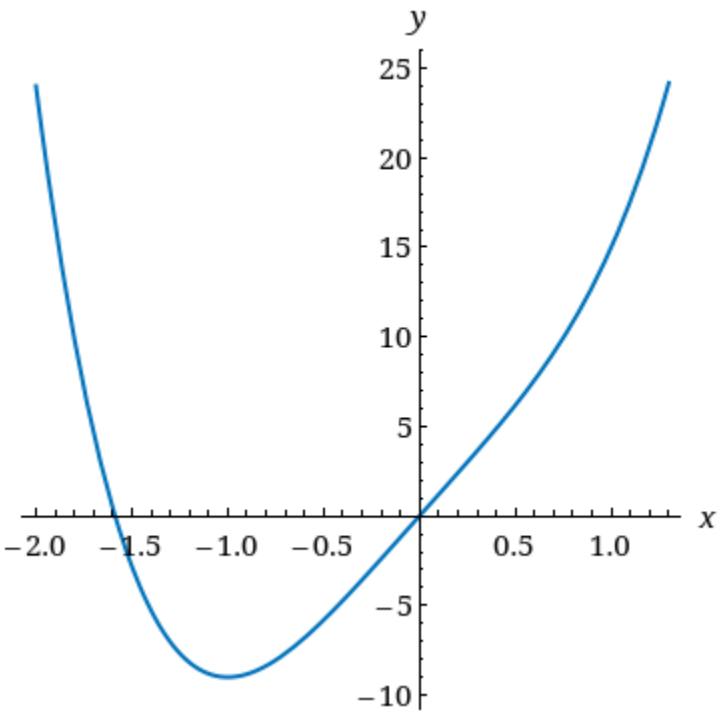
Need Help? Watch It

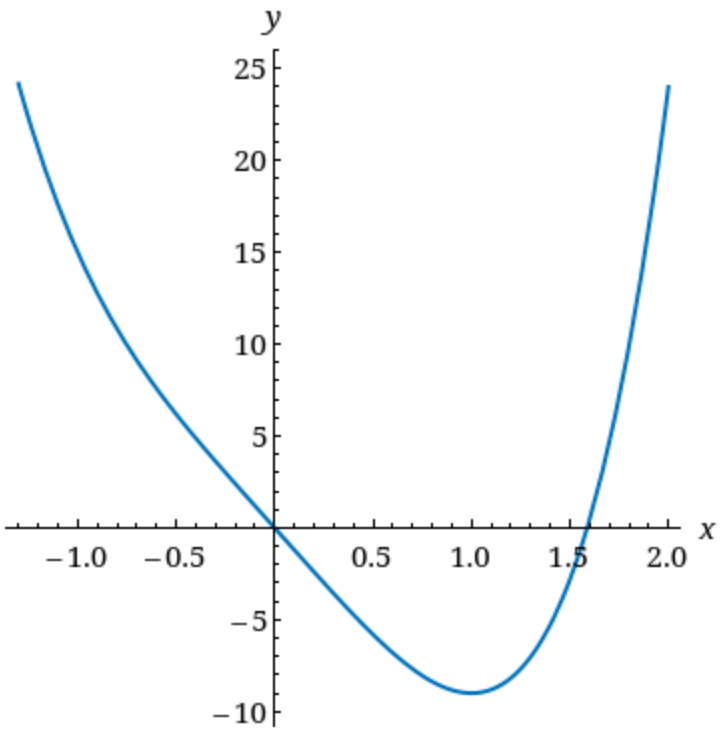
2. [–/2 Points] **DETAILS** SCALCET9 4.5.003.

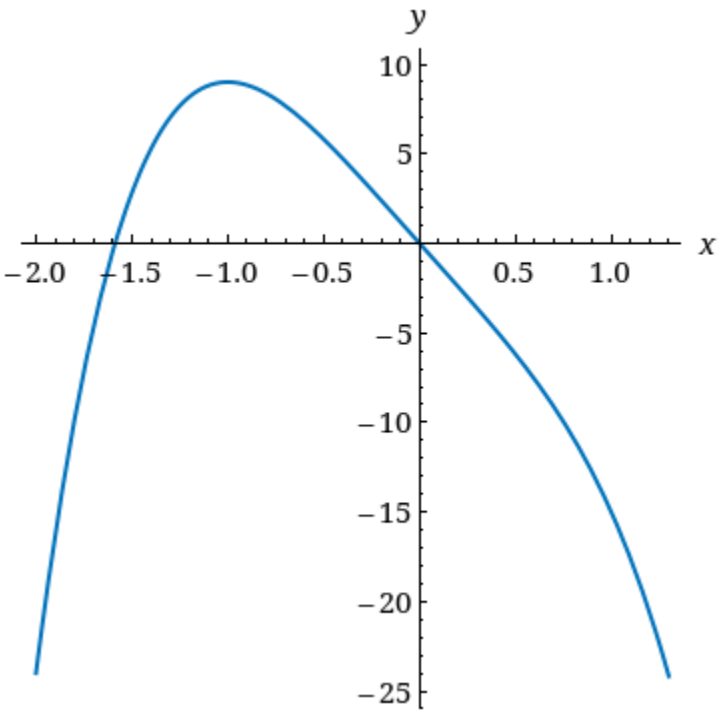
Use the guidelines of this section to sketch the graph of the curve.

$y = 3x^4 - 12x$







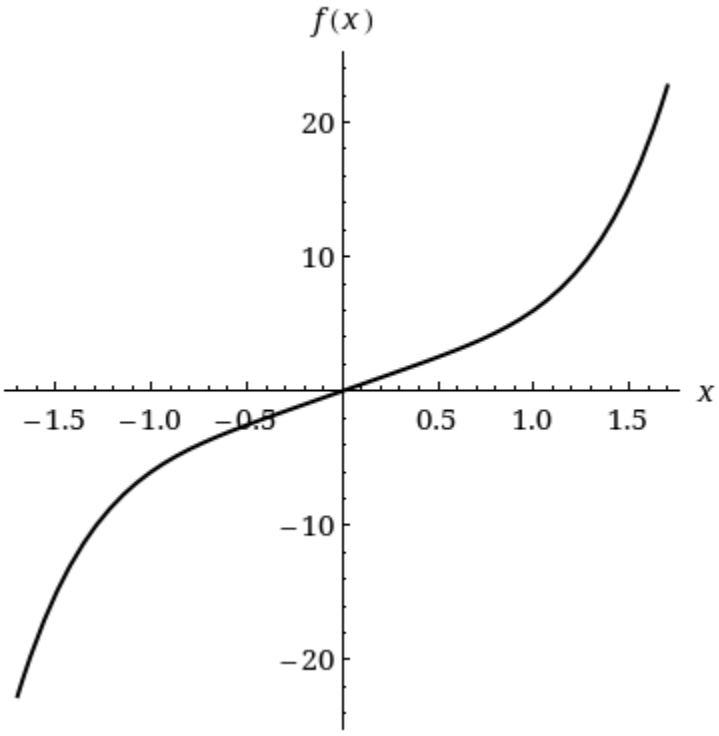


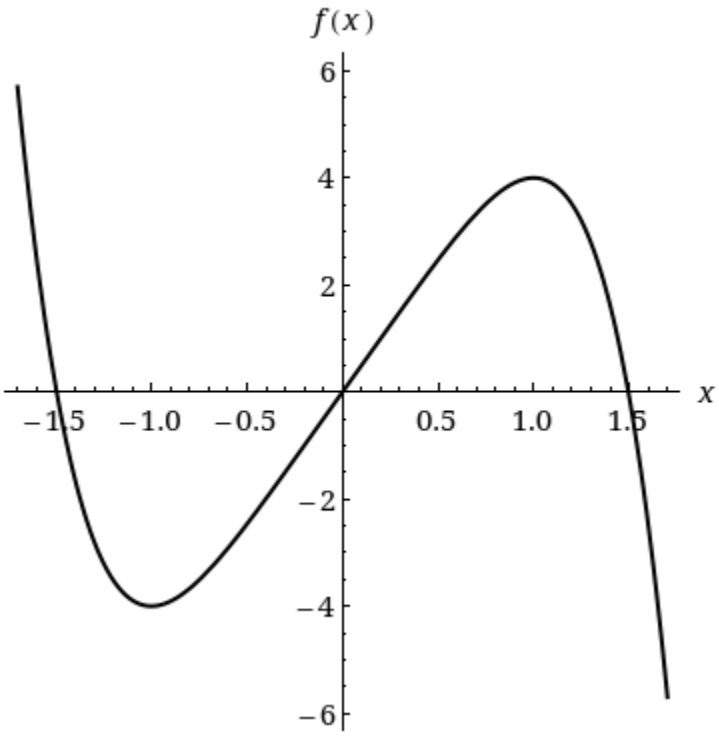
Need Help? Watch It

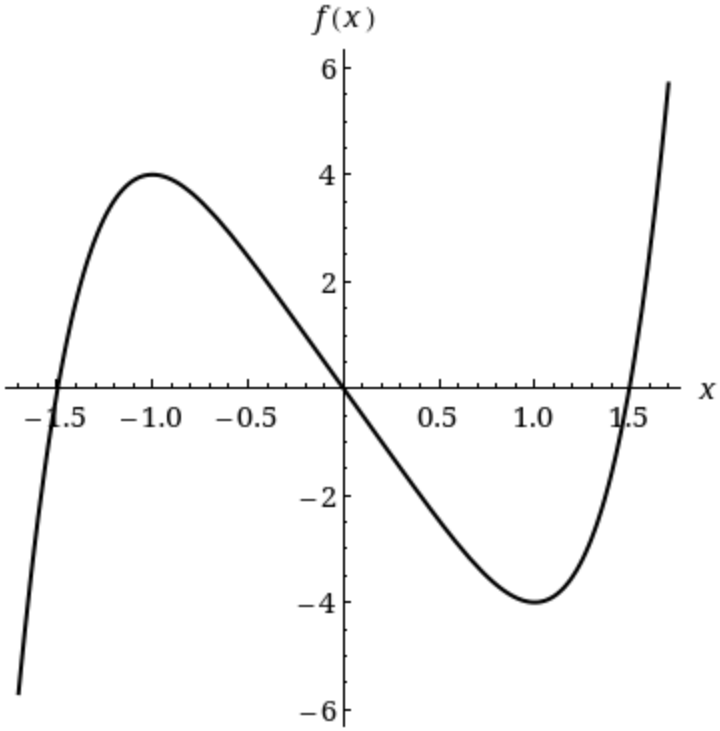
3. [–/2 Points] **DETAILS** SCALCET9 4.5.006.

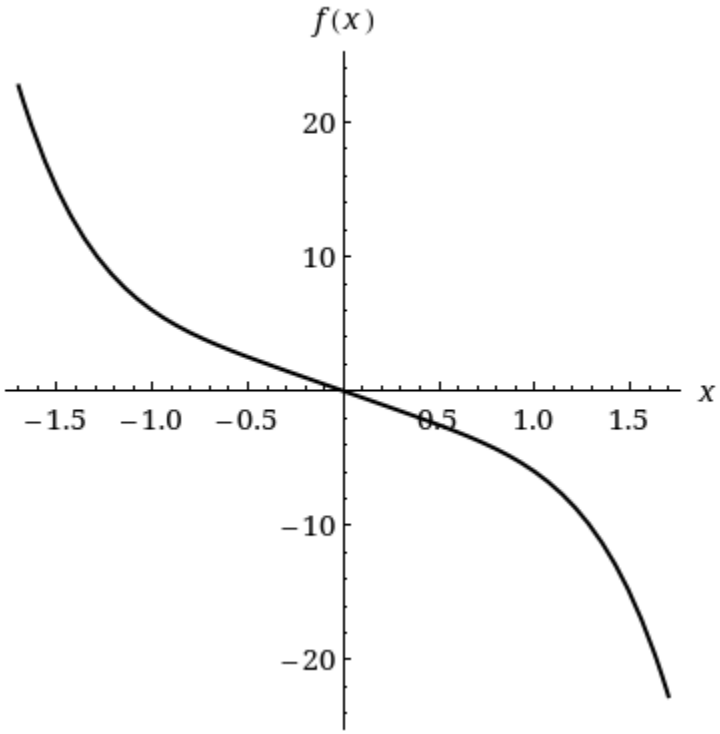
Use the guidelines of this section to sketch the curve.

$f(x) = x^5 - 5x$





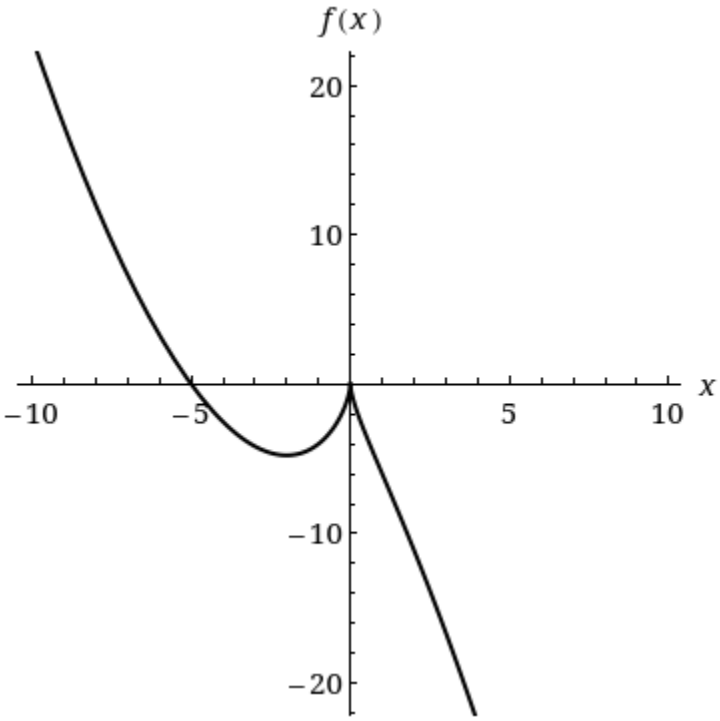

f(x)
6
4
2
−2
−4
−6
x
−1.5
−1.0
−0.5
0.5
1.0
1.5

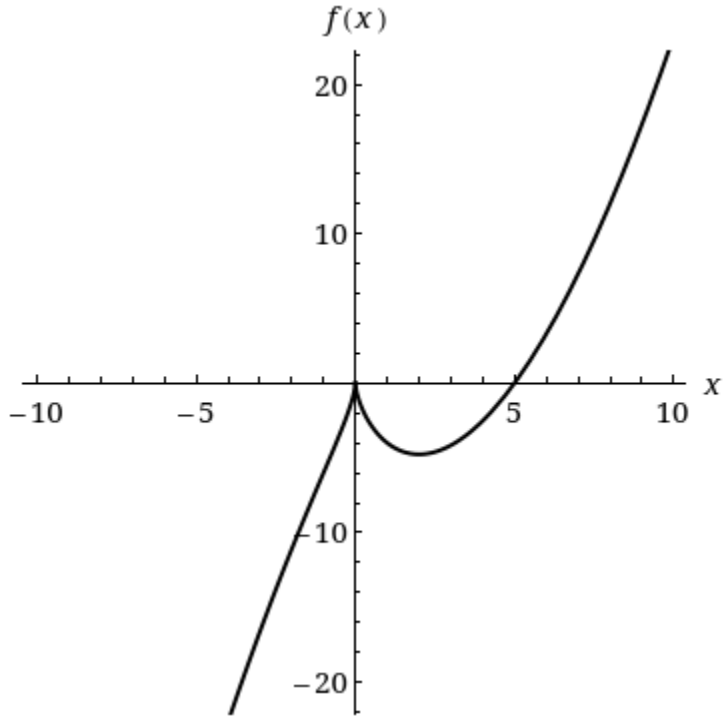

f(x)
20
10
−10
−20
x
−1.5
−1.0
−0.5
0.5
1.0
1.5

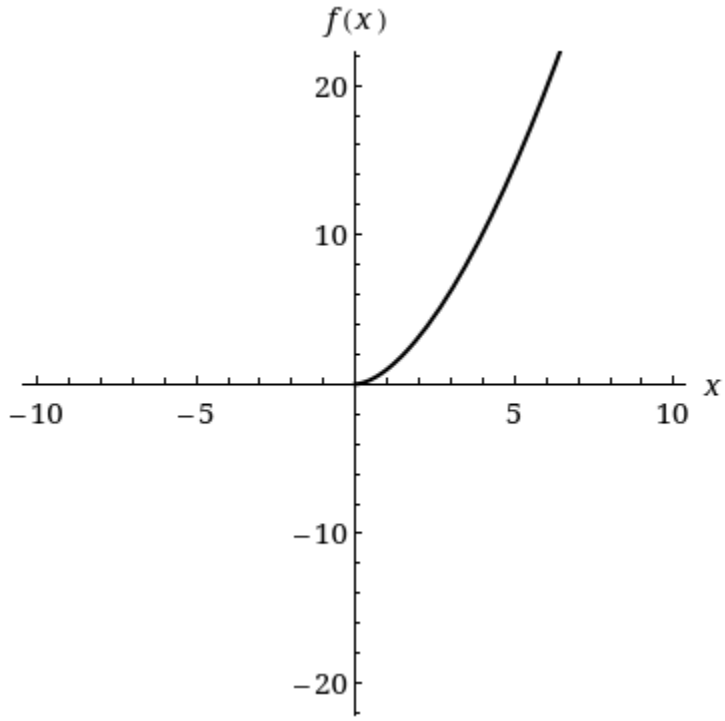
4. [–/1 Points] **DETAILS** SCALCET9 4.5.030.

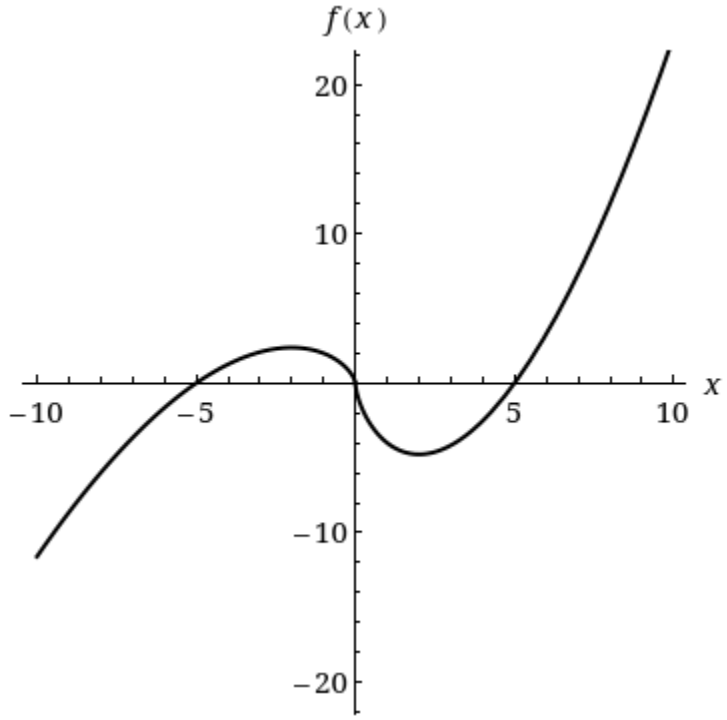
Use the guidelines of this section to sketch the curve.

$$f(x) = x^{5/3} - 5x^{2/3}$$




f(x)
20
10
−10
−5
5
10
x
−10
−20

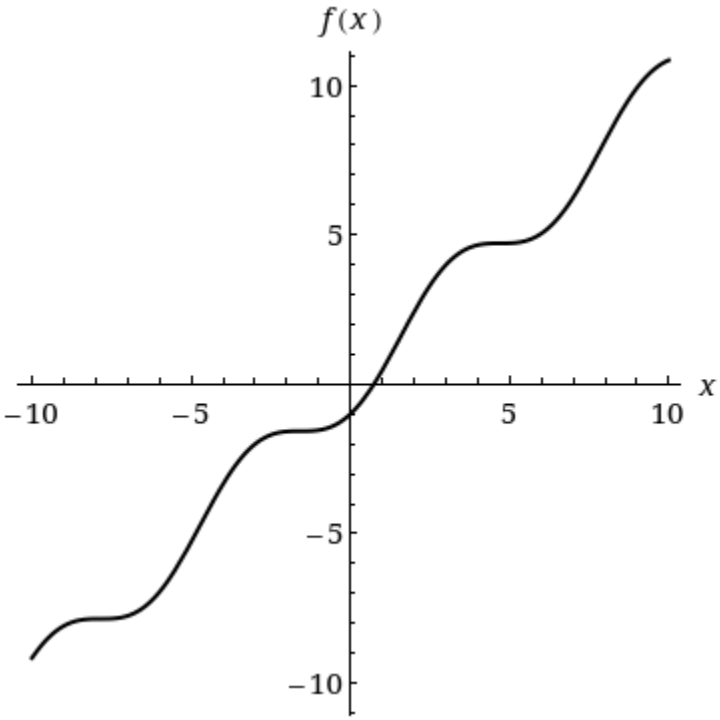

f(x)
20
10
−10
−5
5
10
x
−10
−20

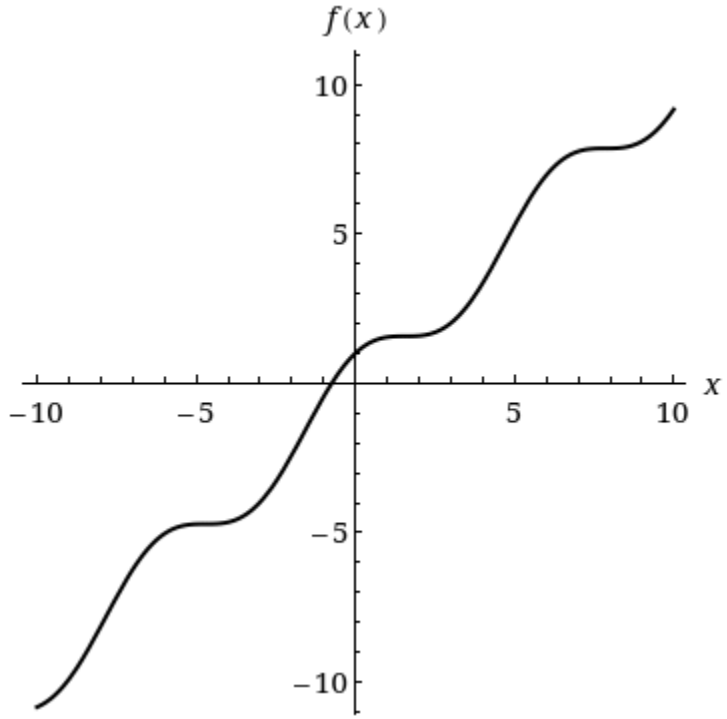

f(x)
20
10
−10
−5
5
10
x
−10
−20

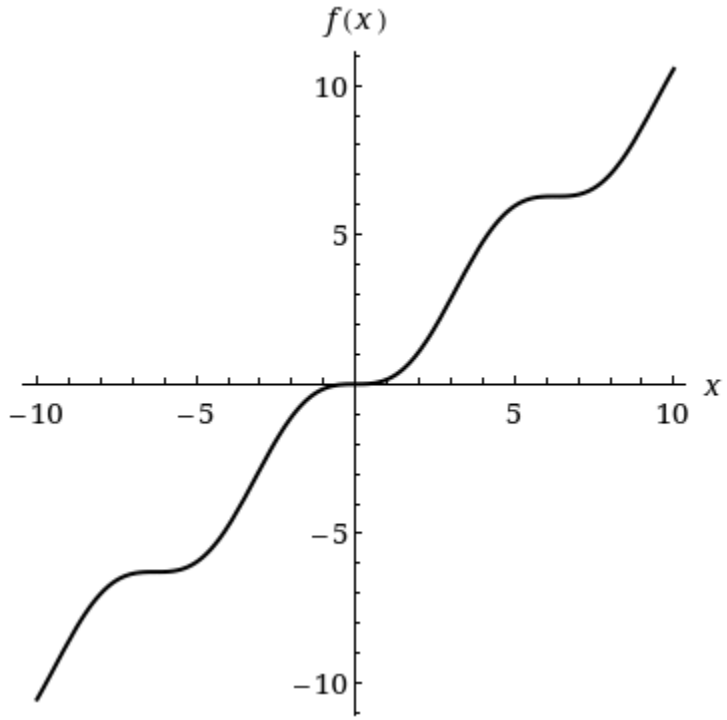
5. [–/2 Points] **DETAILS** SCALCET9 4.5.034.

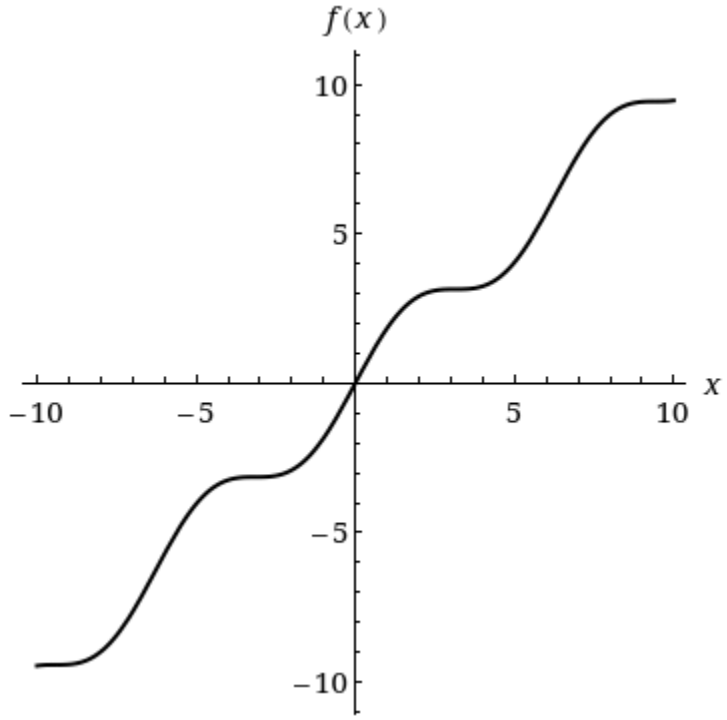
Use the guidelines of this section to sketch the curve.

$f(x) = x + \sin(x)$




f(x)
10
5
−10
−5
5
10
x
−5
−10

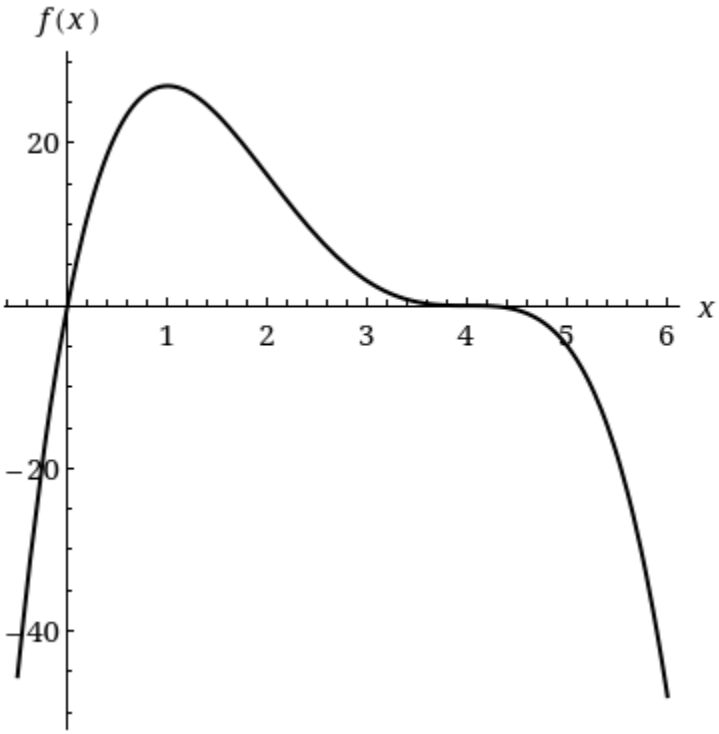

f(x)
10
5
−10
−5
5
10
x
−5
−10

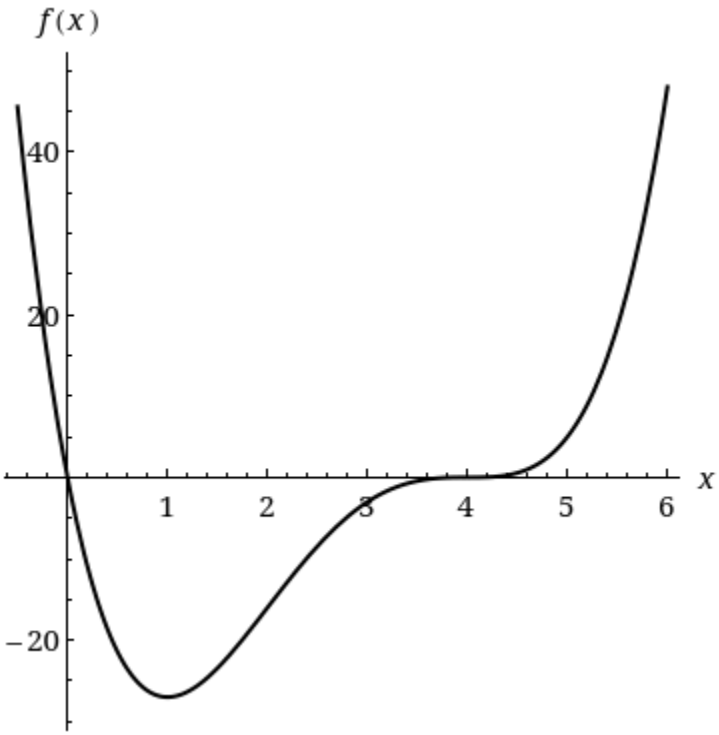

f(x)
10
5
−10
−5
5
10
x
−5
−10

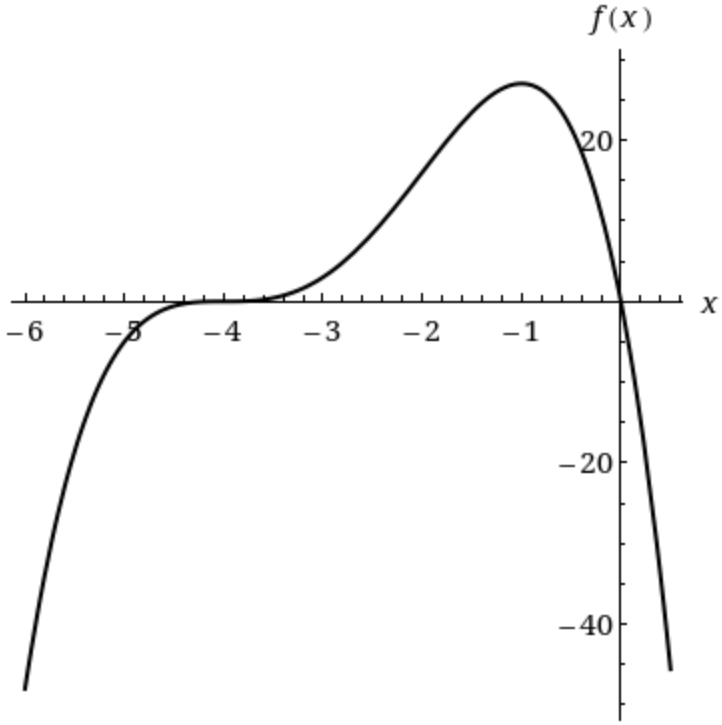
6. [–/1 Points] **DETAILS** SCALCET9 4.5.005.

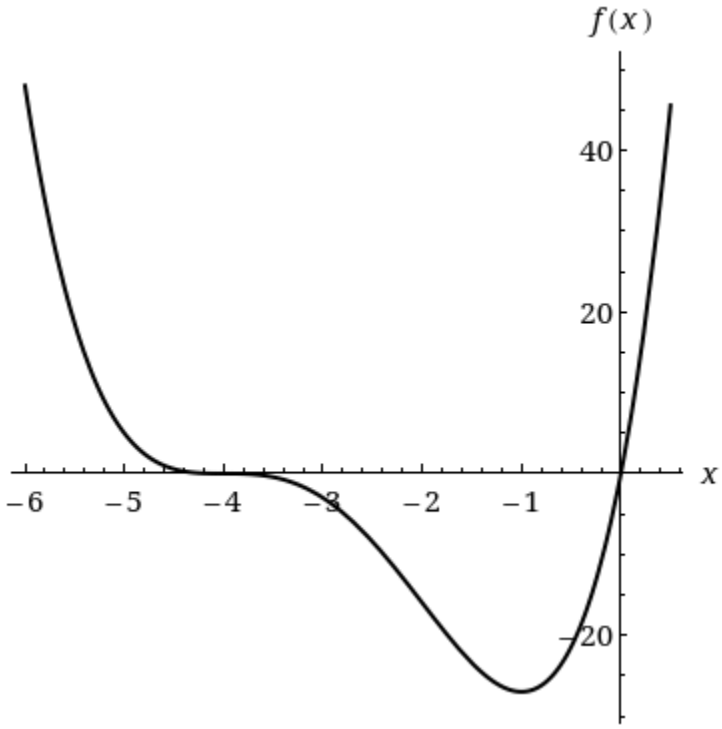
Use the guidelines of this section to sketch the curve.

$$f(x) = x(x - 4)^3$$






f(x)
20
x
−6
−5
−4
−3
−2
−1
−20
−40


f(x)
40
20
x
−6
−5
−4
−3
−2
−1
−20