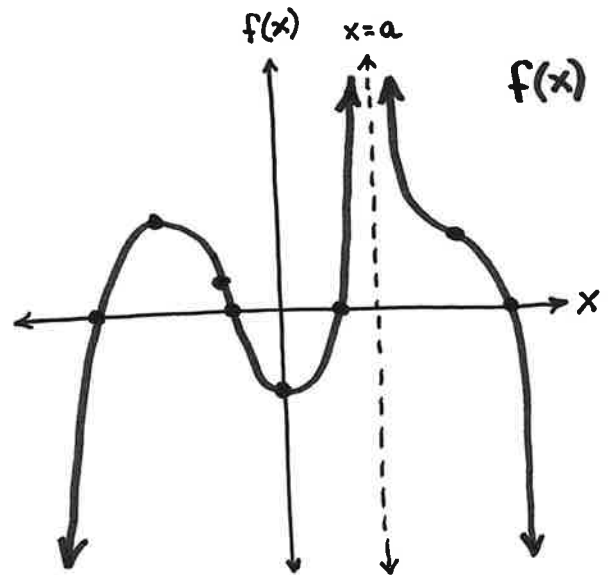


MATH 1325

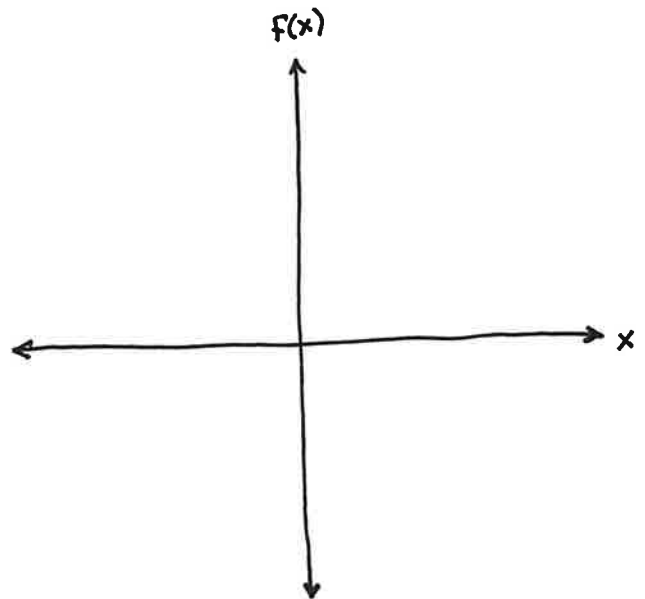
Chapter 12.6: Curve Sketching

How to sketch $y = f(x)$...

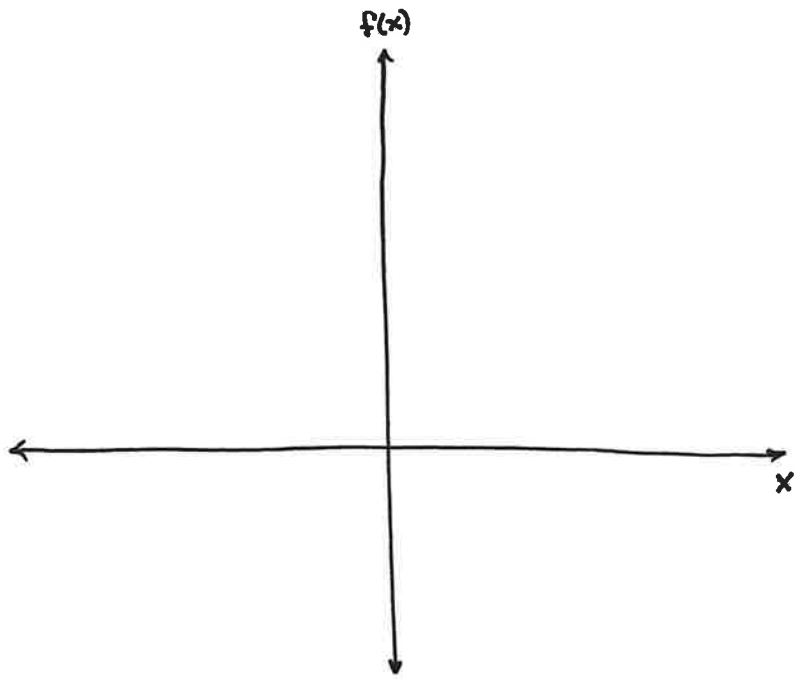
- FIND THE X-INTERCEPTS
- FIND THE Y-INTERCEPT
- FIND ANY VERTICAL ASYMPTOTES
- FIND $f'(x)$ TO DETERMINE CRITICAL NUMBERS AND DIRECTION OF RATE OF CHANGE
- FIND $f''(x)$ TO DETERMINE INFLECTION POINTS AND CONCAVITY INTERVALS
- PLOT THE POINTS ACCORDINGLY AND CONNECT WITH CURVES



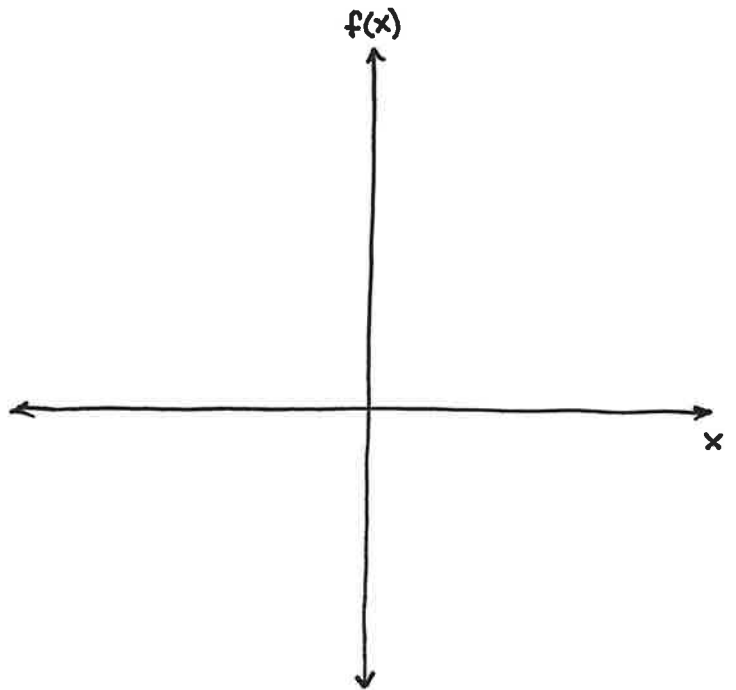
SKETCH $f(x) = x^3 + 6x^2 + 9x$.



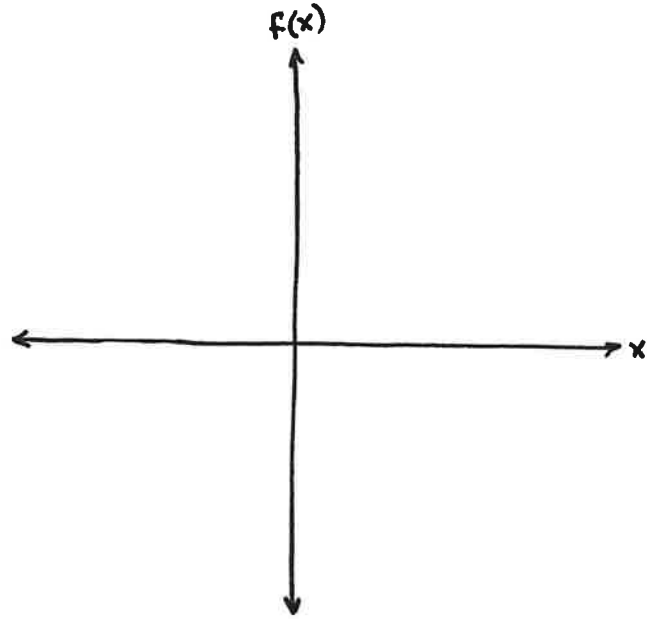
Sketch $f(x) = x^4 - 8x^3 + 18x^2$.



Sketch $f(x) = x + \frac{1}{x}$.



SKETCH $x^2 + x - 6$.



SKETCH $x^3 + 6x^2 - 10$.

