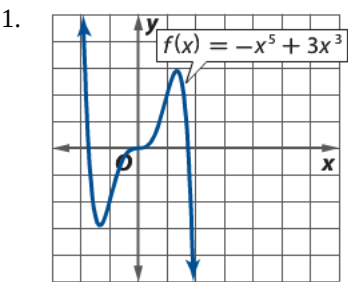
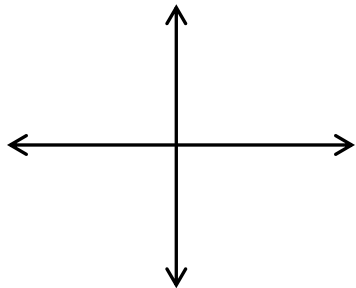


Given the function, determine the following information: Domain, Range, Extrema, Zeros, Y-intercept, Intervals of Increasing and Decreasing, End Behavior, and Continuity (if needed sketch the graph on the coordinate plane).



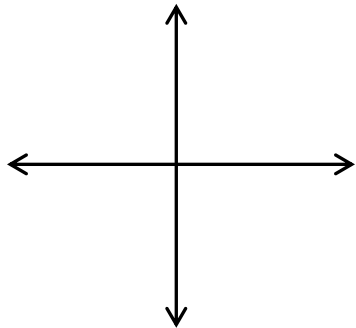
Domain:	Y-intercept:	Relative Maximum:	Increasing/Decreasing/ Constant:
Range:	Continuity:	Relative Minimum:	
Zeros:	End Behavior:	Absolute Extrema:	

2. $f(x) = x^5 - 3x^4 + 2x^2$



Domain:	Y-intercept:	Relative Maximum:	Increasing/Decreasing/ Constant:
Range:	Continuity:	Relative Minimum:	
Zeros:	End Behavior:	Absolute Extrema:	

3. $f(x) = \begin{cases} x^2 - 6 & \text{if } x < 2 \\ x^3 + 2 & \text{if } x \geq 2 \end{cases}$



Domain:	Y-intercept:	Relative Maximum:	Increasing/Decreasing/ Constant:
Range:	Continuity:	Relative Minimum:	
Zeros:	End Behavior:	Absolute Extrema:	