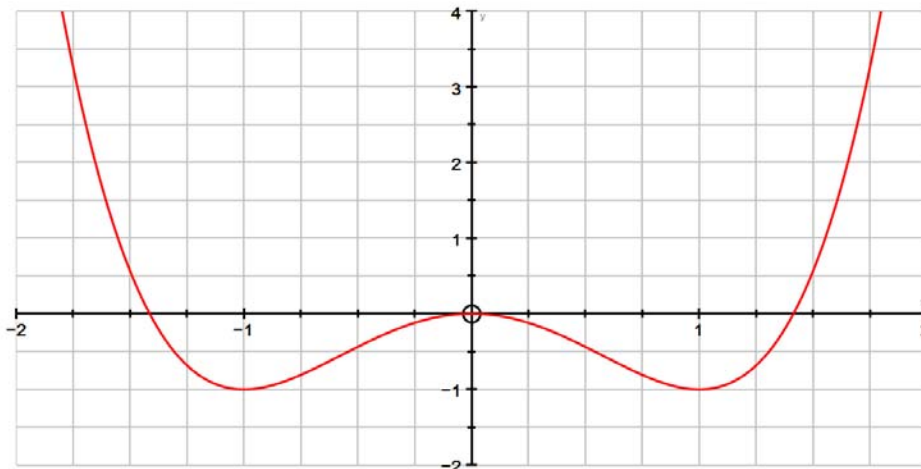


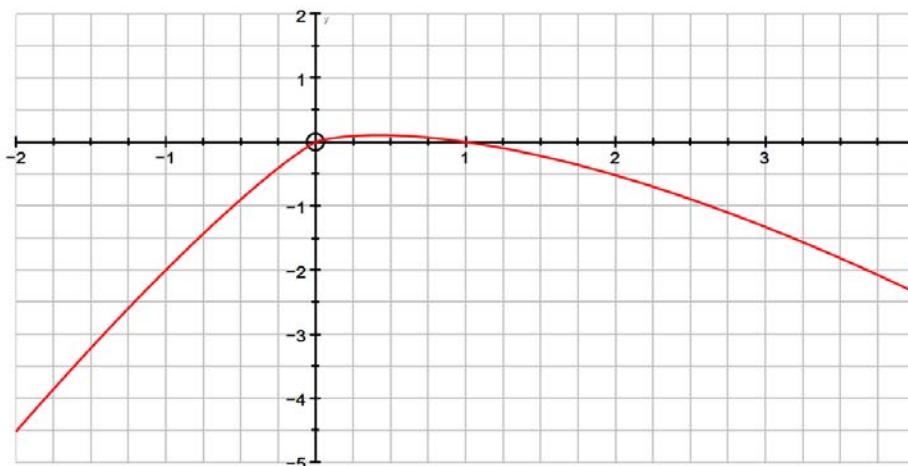
Critical Points and Graphs

- Given the function: $f(x) = x^4 - 2x^2$, as shown below:
 - Determine the interval(s) for which it is increasing.
 - Determine the interval(s) for which it is concave down.



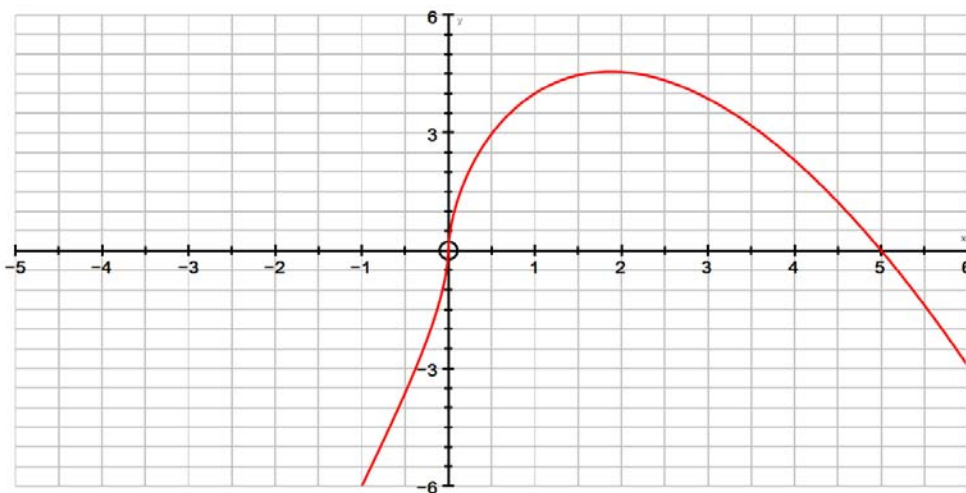
Critical Points and Graphs

2. Determine the critical points for the function: $g(x) = x - x^{4/3}$, shown below. And use those critical points to state the interval(s) for which the function is decreasing.



Critical Points and Graphs

3. Determine the critical point(s) for: $h(x) = x^{3/5}(5 - x)$, shown below and use them to state the interval(s) for which this function is increasing.



Critical Points and Graphs

4. Determine the interval(s) for which the function: $m(x) = x^{\frac{2}{3}}(6-x)^{1/3}$, shown below is increasing.

