

Additional Questions for Homework on Section 4.4.

For each of the following, sketch a graph of the following. On your graph, label any asymptotes, local extreme values (and where attained) and inflection points. [Note: Some of the coordinates of these features of points may depend on the parameter c .]

BA. $f(x) = x^3 - cx$, where c is some positive constant.

BB. $g(x) = x^4 - cx^2$, where c is some positive constant.

BC. $h(x) = xe^{cx}$, where c is some positive constant.