Calculus I   Learning Activity #14
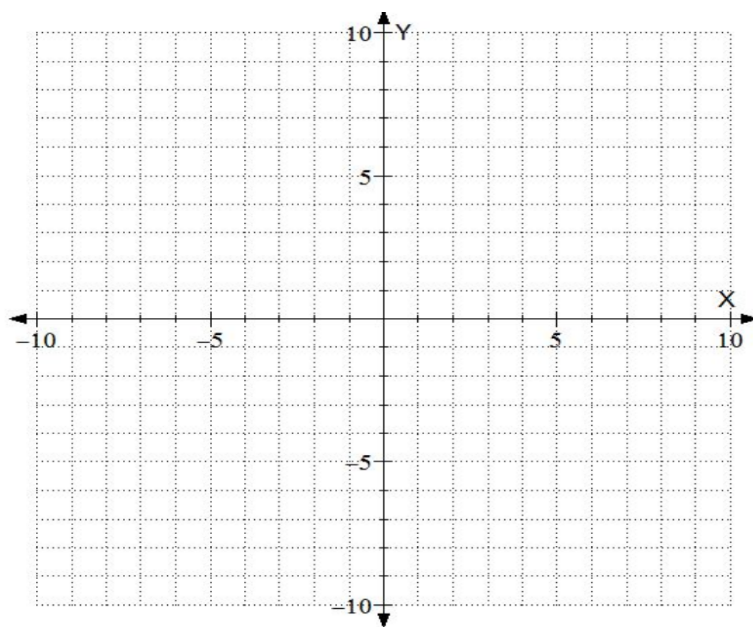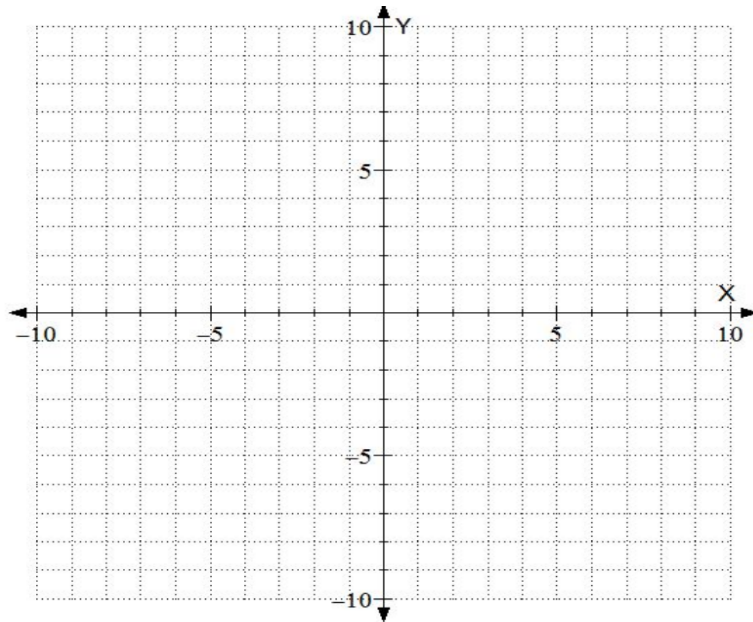
Names: _____   Group #: _____

For the given functions, use the steps discussed in the general process of graphing a function to sketch the curves. **Your work should clearly show and indicate each step. Your graph should clearly label the x– and y–intercepts, relative extrema, and points of inflection. Also any asymptotes should be indicated with dashed lines.**

1. $f(x) = \dfrac{1}{2}x^4 - 3x^2$

2. $g(x) = (3 - x)e^x$

3. $h(x) = \dfrac{4x^2}{x^2 - 4}$