

Homework Assignment #7

(NYA (Calculus I), Fall 2006)
Instructor: Alice McLeod

Sketch each graph. Include all of your analysis: finding the domain, intercepts (if appropriate), symmetry (if appropriate), asymptotes, extrema, intervals of increase and decrease, concavity and points of inflection. The actual sketch should have all interesting features labelled.

1. $y = x + \frac{4}{x^2}$

2. $y = x\sqrt{8 - x^2}$

3. $y = 4xe^{-x^2}$