

Name _____

Date _____

University of Baltimore
Math 107: College Mathematics
Homework: Chapter 3.4-3.5(A)

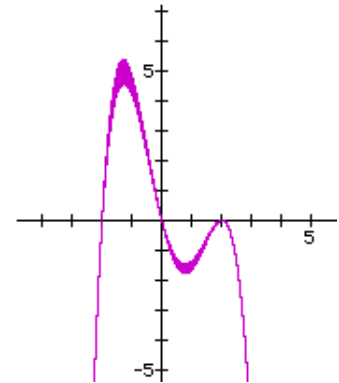
BECAUSE THIS IS A GRADED ASSIGNMENT, YOU ARE NOT ALLOWED TO EITHER GIVE OR RECEIVE HELP IN ANSWERING THESE QUESTIONS.

Answer each question as indicated. **Think** first, then write. **Show all your work**, and remember to **check** your answers! If you use scrap paper number your work and hand the scrap paper in. Please place your answers in the spaces provided.

All graphs should include all intercepts labeled with their coordinates and all asymptotes drawn in and labeled with their equations.

1. Sketch the graph of $f(x) = x^3(x - 4)$.

2. Find a function that could have the graph pictured to the right.



3. Sketch the graph of $f(x) = \frac{2x+1}{x+2}$.

4. Sketch the graph of $g(x) = \frac{4x}{x^2 - 2x - 3}$.