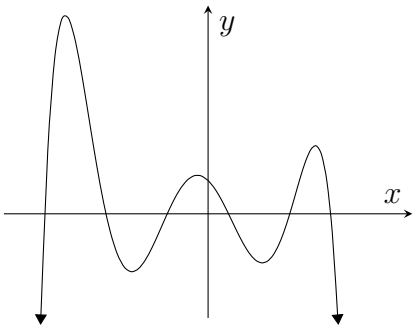
Name _____

Homework 6
Section 1.6

1. (2ea) For each of the polynomial functions graphed below, determine whether the leading coefficient is positive or negative, and the lowest possible degree.

a)



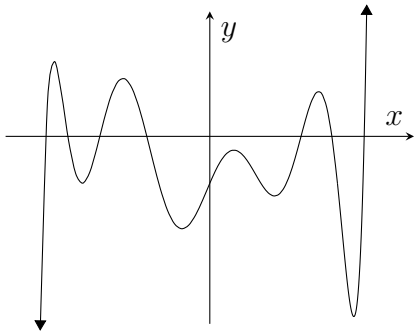
The leading coefficient is

Positive **Negative**

The lowest possible degree is

_____

b)



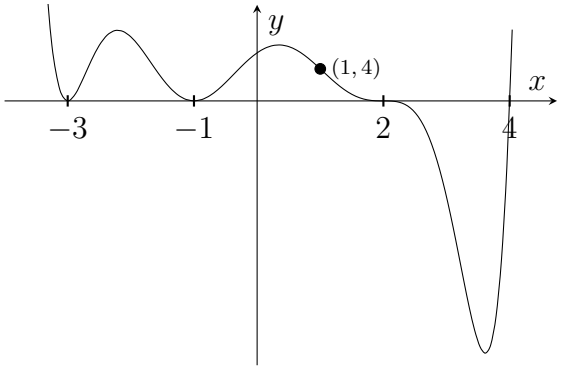
The leading coefficient is

Positive **Negative**

The lowest possible degree is

_____

2. (5) Determine a possible formula for the polynomial function graphed below.



3. (6) Find all of the intercepts and asymptotes of the graph of $g(x) = \dfrac{3(x+1)(x-3)(x-2)}{x^2+3x+2}$. Be sure to label what type of intercept and asymptote each is.

4. (5) Write a formula for the function whose graph is shown below.