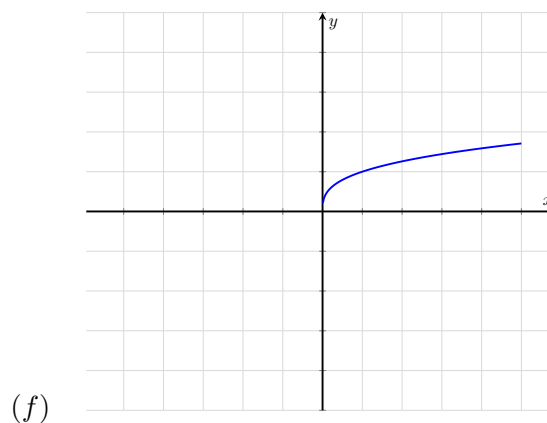
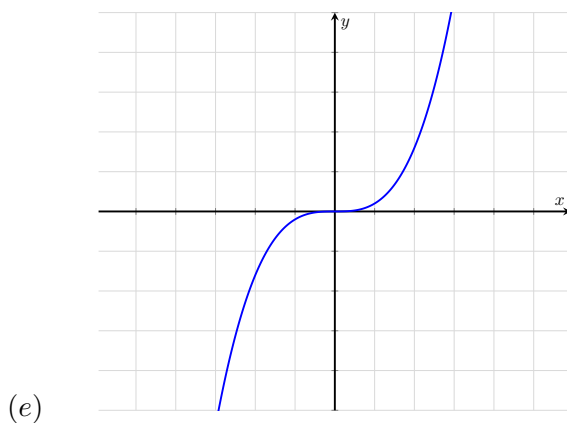
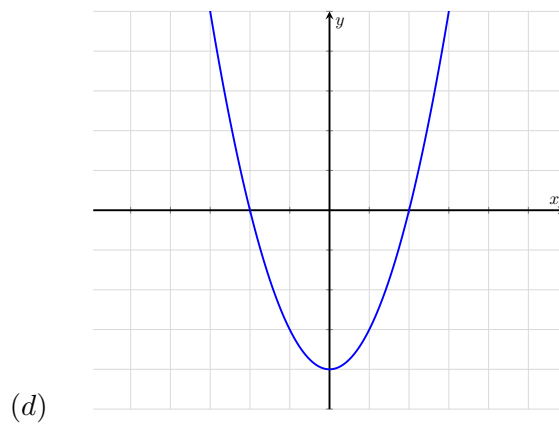
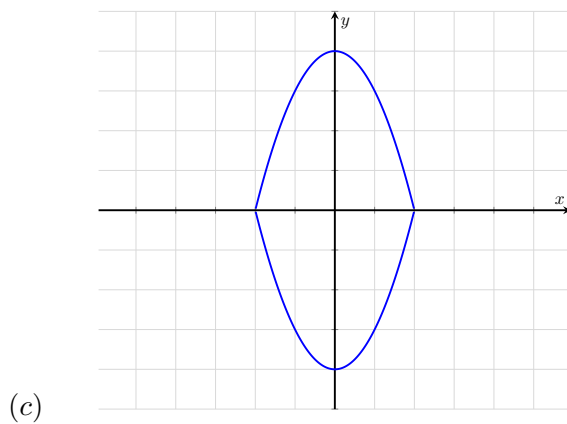
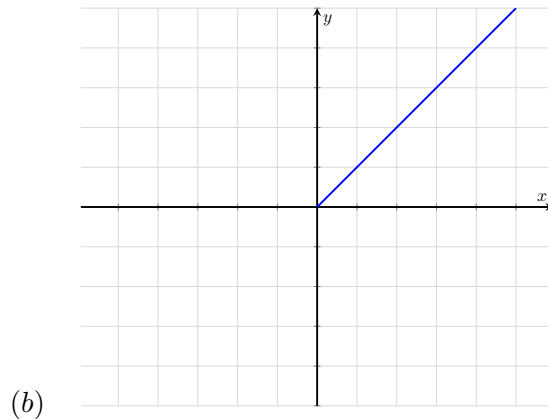
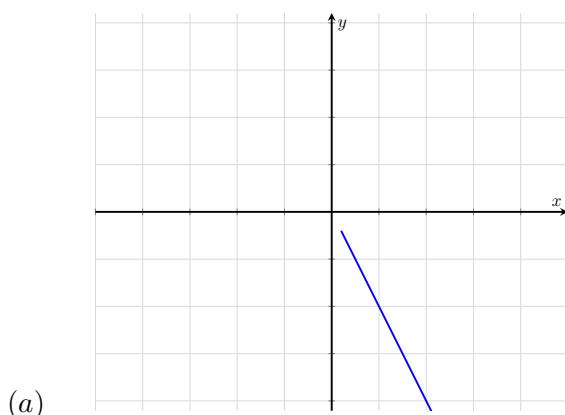
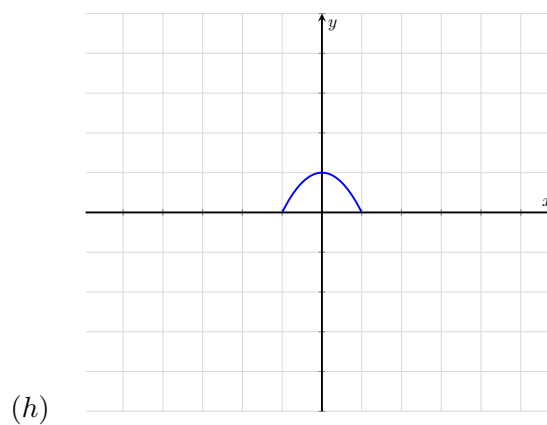
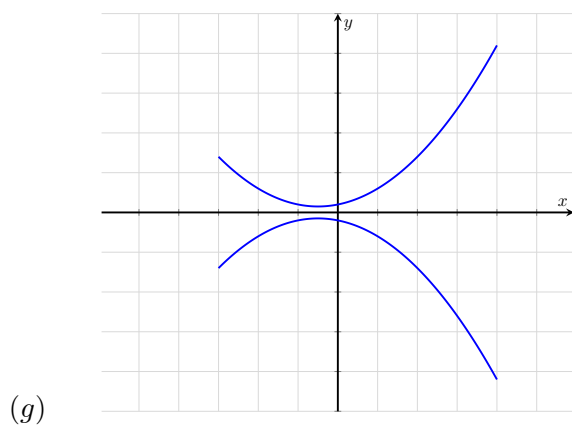


ALGEBRA 2 HONORS
PROBLEM SET 5

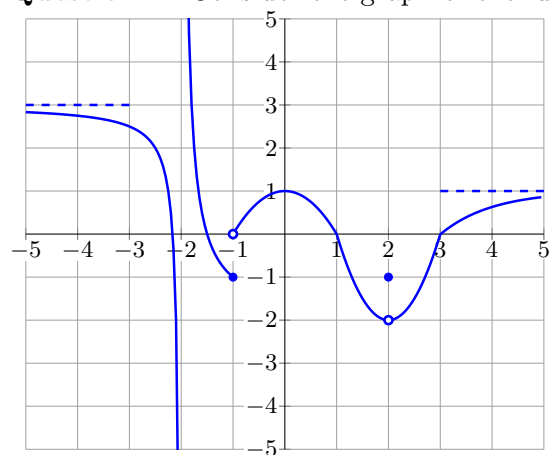
DUE DATE: SEPTEMBER 5

Question 1. Circle which of the following graphs are graphs of a function:



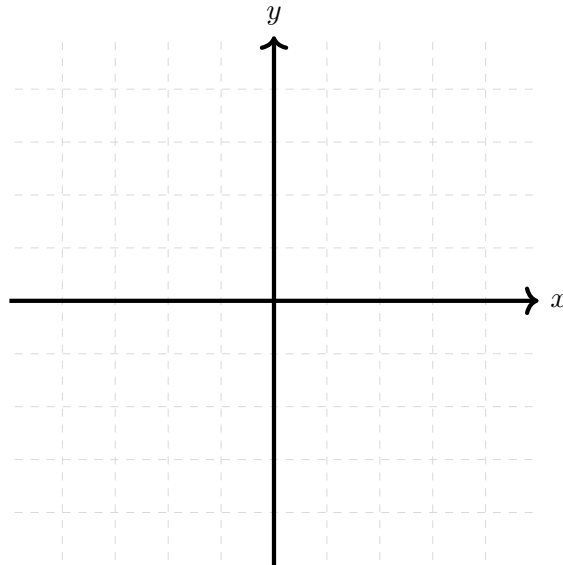


Question 2. Consider the graph of the function $f(x)$ below:



- (a) Find the value of $f(-3)$
- (b) Find the value of $f(-1)$
- (c) Find the value of $f(1)$
- (d) Find the value of $f(2)$
- (e) Find the value of $\lim_{x \rightarrow -1^-} f(x)$
- (f) Find the value of $\lim_{x \rightarrow -1^+} f(x)$
- (g) Find the value of $\lim_{x \rightarrow 2^-} f(x)$
- (h) Find the value of $\lim_{x \rightarrow 2^+} f(x)$

Question 3. Draw the graph of the function $f(x) = 3$.



Question 4. Draw the graph of the function

$$f(x) = \begin{cases} 1 & \text{if } x = 2 \\ 2 & \text{if } x > 2 \\ 3 & \text{if } x < 0 \\ 0 & \text{else} \end{cases}$$

