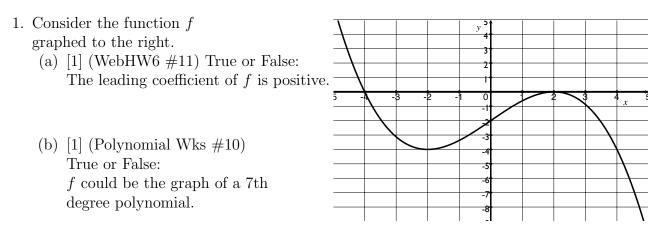
## Quiz 3

Show *all* your work. No credit is given without reasonable supporting work. There are two sides to this quiz.



(c) [3] (§2.3 #38) Assume when f is completely factored, each real zero c corresponds to a factor of the form  $(x - c)^m$ . Find the equation of least degree for f.

2. [2] (ExponentWks page 4#2) Simplify  $\frac{a^2b^{-2}}{a^{-1}b}$ 

3. [3] (WebHW7 #14 & 22) Graph g where:  $g(x) = \begin{cases} \left(\frac{1}{2}\right)^x & \text{if } -2 \le x \le 0\\ \log_3(x-1) & \text{if } 0 < x \le 4 \end{cases}$ 

				y 4					
				3					
				2					
				1			1		
-4	-3	-2	-1	0	1	2	3	4	
				-1					•
				-2					
				-3					
				-4					