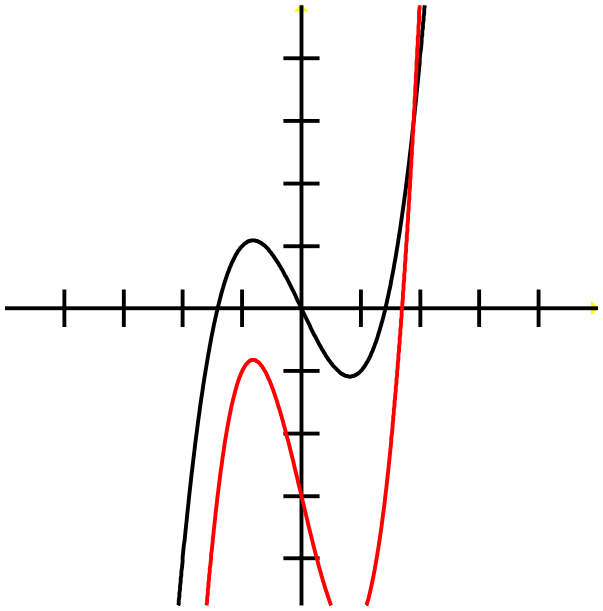
Name ___Solutions_____ Calculus I, Spring 2017, Quiz 1

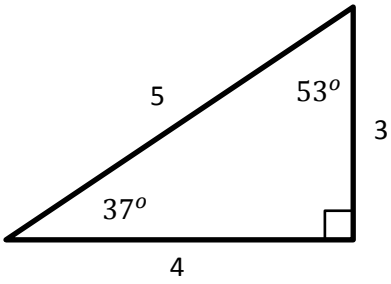
1) Given $g(x) = \left|\frac{x^2-4}{x+3}\right|$, find $g(1)$.

$$g(1) = \left|\frac{1^2-4}{1+3}\right| = \left|\frac{-3}{4}\right| = \frac{3}{4}$$

2) Given the graph of $f(x) = x^3 - 2x$, below, sketch a graph of $g(x) = 2(x^3 - 2x) - 3$ on the same axis.



3) Use the triangle given to the right to find $\sin(143^o)$



As can be seen from the triangle below, $\sin(143^o) = \frac{3}{5}$