4.2 Sketching Derivatives

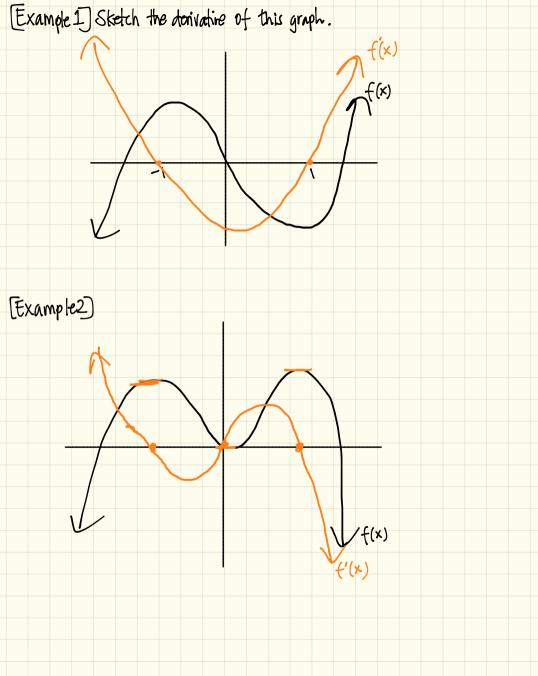
Standards:	
MCA3	
MCA3a	
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 $f'(x) = 3x^2 - 1$ [New] Sketching Denvatives (Graphically) Let's consider the graph of the function: $f(x) = x^3 - x$. Goul: To graph (or sketch) the derivative of the function. • We can estimate the value of the derivative at any value of x by determining (or estimating) the slope of the tangent line at every arbitrary point (x, f(x)). · When determining the new x & y couldn atcs for the donivatives graph, L>x-coordinates stay the same as the position function's graph. y-courdinates become a new y-courdinate being the slope of the at the corresponding x-value. This was created by Keenan Xavier Lee, 2013. See my website for more information, lee-apcalculus weebly com.

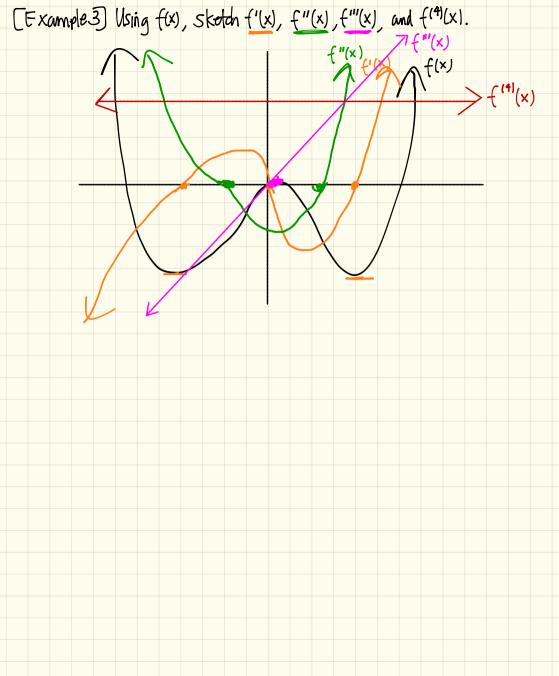
[Old Computing Derivatives Algebraically

Find the derivative of f(x).

 $f(x) = x^3 - x$



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