1. For the graph of $f(x)=x^{4}-12 x^{3}+36 x^{2}+4 x-12$, find the equation of the line that is tangent to the graph of $f(x)$ at two points.
(Note that this is not the same thing as a tangent line that intersects the graph a second time the second intersection must also be a point of tangency. There is only one such line for this example. You may use a graphing device/computer algebra system to assist you, but your final answer should include all the algebra performed by hand.)
