1. Let $f(x)=\ln (x)-\frac{x^{2}}{20}$
(a) Write the equation of the line tangent to the graph of $y=f(x)$ at $x=5$.
(b) Find the maximum and minimum values of $f(x)$ on the interval $[1,12]$.
2. Let $g(x)=3 e^{x}-7 x$.

Write the equation of the line tangent to the graph of $y=g(x)$ at its global minimum.

