Find the derivative of the function.

*f*(*x*) = (1 − *e*−2*x*)8

*f '*(*x*) =

Find the derivative of the function.

f(x) = (9 ln(x))/(x^8)

*f '*(*x*) =

Find the derivative of the function.

 f(x) = 6 (ln(x))^(3\/2)

*f '*(*x*) =

Find an equation of the tangent line to the graph of *y* = *e*-*x*2 at the point (3, 1/*e*9).  
*y* =

Find an equation of the tangent line to the graph of *f*(*x*) = *ex*/2 ln(*x*) at its inflection point. (Hint: Show that (1,0) is the only inflection point of *f*.)  
*y* =