period 10 (Calculus) Ms. Jones

4)

$f'(x) = \frac{1}{x}$

$f(x) = \ln x + C$

$\frac{1}{x} = \frac{1}{x} + C$

$\frac{1}{x} - \frac{1}{x} = C$

$0 = C$

$f(x) = \ln x$

$f(x) = \ln x$

$f(1) = \ln 1$

$f(1) = 0$

$f'(x) = \frac{1}{x}$

$f'(1) = \frac{1}{1}$

$f'(1) = 1$

$y - 0 = 1(x - 1)$

$y = x - 1