

In class work 5 has questions 1 through 2 with a total of 10 points. Turn in your work at the end of class *on paper*. This assignment is due *Thursday 7 September 13:20*.

1. Find a formula for  $F'$  given

2 (a)  $F(x) = \ln(x^2 + 1)$

**Solution:**

2 (b)  $F(x) = x \ln(x^2 + 1)$

**Solution:**

2 (c)  $F(x) = \frac{\ln(1+x) - \ln(1-x)}{2}$

**Solution:**

2. Find the numerical values of the definite integrals

2 (a)  $\int_0^1 \frac{x}{1+x^2} dx$

**Solution:**

2 (b)  $\int_{-4}^{-2} \frac{1}{x+10} dx$

**Solution:**