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 8 Febuary 13:20.*

1. Find a formula for F' given

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

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

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

2. Find the numerical values of the definite integrals

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

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