$\begin{array}{c} \text{Math 412} \\ \text{Quiz 1} \\ \text{Thursday, January 18} \end{array}$

You have 15 minutes to complete the quiz. You may turn in corrections for up to half credit back by the beginning of the next class period.

Na	me:
1.	(3 points) Write complete, precise definitions for, or precise mathematical characterizations of the following (italicized) terms.
	An integer $p \notin \{-1, 0, 1\}$ is $prime$
2.	(4 points) Use the Euclidean algorithm to write the greatest common divisor (578, 45) as a linear combination of 578 and 45 with integer coefficients.
3.	(3 points) If $a c$ and $b c$ and $(a,b)=d$, show that $ab cd$.