Math 433 Quiz 4
Applied Algebra

Instructions Please write your name in the upper right-hand corner of the page. Use complete sentences, along with any necessary supporting calculations, to answer the following questions.

1. Solve the pair of simultaneous linear congruences

$$
\left\{\begin{array}{l}
x \equiv 5 \quad \bmod 7 \\
x \equiv 10 \quad \bmod 13 .
\end{array}\right.
$$

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Summer 2009
2. Which of the values $\phi(25)$ and $\phi(27)$ of Euler's totient function is the greater?

