Set 7 - Homework

Name:

(1) Can we solve the simultaneous congruence $x \equiv 1 \pmod{4}$ and $x \equiv 0 \pmod{6}$?

(2) Recall that, if p is a prime number, we have $\varphi(p^k) = p^k - p^{k-1}$. Use this, and the previous problem, to find $\varphi(300)$.