Number Theory Homework Week 10

1. Let Find Find .
2. Find the sum of all the numbers less than 30 that are relatively prime with 30 directly and using .
3. Find the sum off all the numbers less than 33300 that are relatively prime with 333000.
4. Find the order of 7 modulo 30.
5. Find all the primitive roots does 30 have?
6. How many primitive roots does 333000 have?

5 pts each