## <u>Section 6 Lecture 36 – Euler's totient function</u>

## **Exercises**

(i)	8	(ii)	10	(iii)	15	(iv)	23
Q2) Use the formula $\varphi(pq) = (p-1)(q-1)$ to give the Euler totient function $\varphi(n)$ for the following numbers $n$ :							

(iii)

Q1) Find the Euler totient function  $\varphi(n)$  of the following numbers n:

(ii)

15

(i)

10

Q3) What do you notice about your solutions for Q1 and Q2 in terms of them being odd or even? Do you think this is always the case?

35

(iv)

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