$$a = 17$$

a = 17 b = 8 adl v = 1, 2, 3, 4, 6, 12 bdi v = 1, 2, 4, 8

g zd (a,5) = 4

a=11, b=17 both prime gcd=1

1) 9,5 hove yed Ca,5)=1 than a akb 6 are coprime

because it could be a biggs prime but it could plse be a multiple of the prime

X -3 = 4 mod 17

Mod 2e I $= \frac{1}{2}$ <u>u</u> = q mod 24 = mod. 24-4 2 $\frac{2}{2} = 64$ $\frac{2}{2} = 100$ Mod 29 = 2 r 6 Mod 29 = 2 r 23 Mod 29 = 3r13 | Mod 29 = 4r5 | Mod 29 = 4r28 | Mod 29 = 5r24 11 = 121 72 = 127 | word 29 = 132 = 169 | Word 29 = 169 | Word 29 = 169 | Word 29 = 167 | 167 = 256 | Word 29 = 167 = 256 | Word 29 = 256 | Word 29= 6 rzz Mod 29 = 8 r 2 4 Mod 28 = 9 r 28 mod 201 = 1115 =12 r 13 mod 29 400 = 13 r 23 mod 29 = 1516 -46 r 20 2 4 mod 29 mod. = 18 17 76 29 = 19 r28 Ind mod 29 = 2116 6761 mod 29 = 23 r q mod 29 = 25 ry 2 = 780

 $p \equiv 3 \mod 4$ $\sqrt{a} \equiv a^{(p+1)/4} \mod p = q \pmod{n}$ $-\sqrt{a} \equiv p - a^{(p+1)/4} \mod p$

(a)