### 答案僅供參考

### 第1題.

1 (0)	789=	34.23+7	quotient	is	34
			vemainder	is	7
(4)	-202=	-3×87+59	quotient		
			remainder	Îs	59

## 第2題.

2.(a) 
$$|0| = 5 < 17 + 16$$

(b)- $|1|2 = -7 \times 17 + 7$  both are not congruent to 5 modulo 19.

# 第3題.

3.	X0=2	
	X 1= 3x2 mod 11 = 6	sequence:
	X2=3.6 mod 11=7	2,6,7,10,8,2,
	X3 = 3.7 mod 11 = 10	
	X4= 3.10 mod 11= 8	1 de 10 - 18 + +++ 1 200 - 1
	X5 = 3 8 mod 11 = 2	3 10 10 25 M LA 2 45)
M	TO PE 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	46 41 32 mg
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# 第4題.

(a) 
$$627 = 3 \times 11 \times 19$$
  
(b)  $9099 = 3 \times 339$ 

#### 答案僅供參考

#### 第5題.

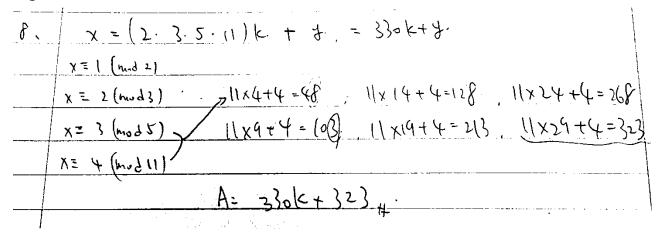
17	Each of element doesn't have same prime factoriza
31	the set is pairwise relatively prime.
35 = 547	The second second second
b) 7	A Playmont Comment of the Comment of
8= 53	The set is pairwise relatively prime.
19	17 at religion

### 第6題.

(a) 
$$gcd(3^{9}.5^{3}.7^{3}.2^{9}.3^{3}.5^{9}) = 3^{3}.5^{3} = 3375$$
  
(b)  $111=3.37$   
 $99=3^{2}.11$   
 $gcd(111,99)=3$ 

#### 第7題.

第8題.



第9題.

第10題.

Since  $a \mid c$  and  $b \mid d$ , then we have c = as and d = bt for some s and t. Multiplying we have cd = ab(st), which means  $ab \mid cd$ .