## Reading Quiz §6 & 8

1.	Recall that the Klein 4 group V has a Cayley table shown to the right. Recall also that $\mathbb{Z}_2$ forms a group under addition modulo 2.	V	e	a	b	c
		e	e	a	b	c
		a	a	e	c	b
		b	b	c	e	a
	(a) [2] Write down the elements in $\mathbb{Z}_2 \times V$ .	С	С	b	a	e

(b) [1] Compute  $(1, a) \star (0, b)$  in  $\mathbb{Z}_2 \times V$ .

2. [2] Define the alternating group on 3 elements  $A_3$ , and write down explicitly a group element that is not the identity.