Reading Quiz §5

1. [1] Identify a subgroup in the Klein 4 group V. Recall that the Cayley table for V is:

V	e	a	b	c
e	e	a	b	С
a	a	e	c	b
b	b	c	e	a
c	c	$egin{array}{c} e \\ c \\ b \end{array}$	a	e

- 2. [3] Consider the group of integers modulo 8 with modular addition, (\mathbb{Z}_8, \oplus) . If possible, find subgroups of \mathbb{Z}_8 of order:
 - (a) 2

(b) 3

3. [1] Describe the Quaternion Group briefly. For example, what is it's order? Is it a subgroup of anything? Write down something that you know about it.