## Monday, 6 November 2023 Vectors

M is the midpoint of FG and O is the

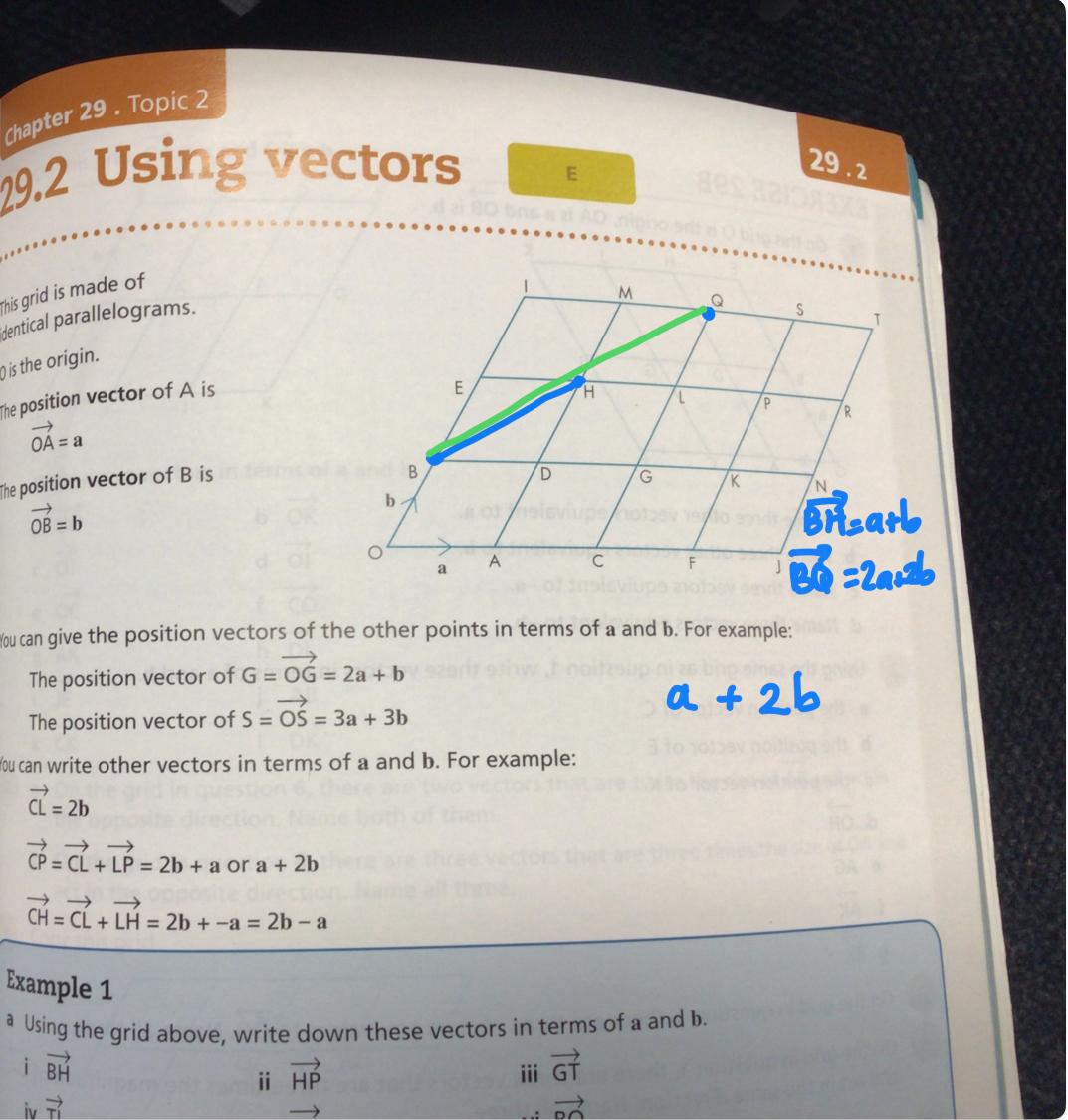
GÓ

## chapter 29. Topic 2 **Using vectors** 29.2

This grid is made of identical parallelograms. 0 is the origin. The position vector of A is  $\overrightarrow{OA} = a$ The position vector of B is  $\overrightarrow{OB} = \mathbf{b}$ 

i BH

iv Ti



You can give the position vectors of the other points in terms of a and b. For example:

The position vector of G = OG = 2a + bThe position vector of S = OS = 3a + 3bYou can write other vectors in terms of  $\mathbf{a}$  and  $\mathbf{b}$ . For example:  $\overrightarrow{CL} = 2\mathbf{b}$  $\rightarrow \rightarrow \rightarrow$ CP = CL + LP = 2b + a or a + 2b $\overrightarrow{CH} = \overrightarrow{CL} + \overrightarrow{LH} = 2\mathbf{b} + -\mathbf{a} = 2\mathbf{b} - \mathbf{a}$ Example 1

ii HÝ