## AQA - Vectors - GCSE Mathematics Paper 3

1. June/2021/Paper\_3H/No.27

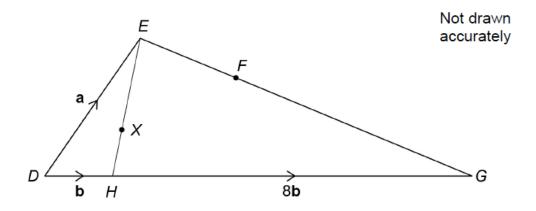
In the diagram

$$\overrightarrow{DE} = \mathbf{a}$$

$$\overrightarrow{DH} = \mathbf{b}$$

$$\overrightarrow{HG} = 8\mathbf{b}$$

$$EX: XH = 3:1$$



(a) Show that  $\overrightarrow{DX} = \frac{1}{4}\mathbf{a} + \frac{3}{4}\mathbf{b}$ 

[2 marks]

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b)	Is DXF a straight line?	
	Show working to support your answer.	[4 marks