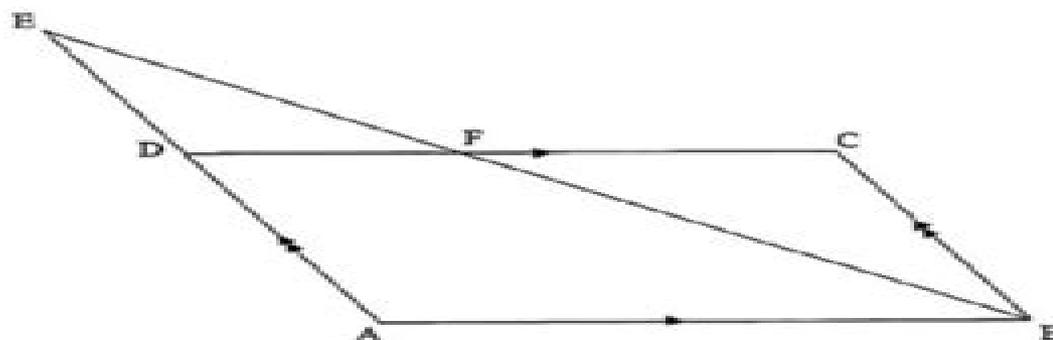


**QUESTION 9**

In the diagram,  $ABCD$  is a parallelogram with  $AB = 14$  units.  $AD$  is produced to  $E$  such that  $AD : DE = 4 : 3$ .  $EB$  intersects  $DC$  in  $F$ .  $EB = 21$  units.



- 9.1 Calculate, with reasons, the length of  $FB$ . (3)
- 9.2 Prove, with reasons, that  $\triangle EDF \parallel \triangle EAB$ . (3)
- 9.3 Calculate, with reasons, the length of  $FC$ . (3)
- [9]**

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**Lingjun Ying**



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