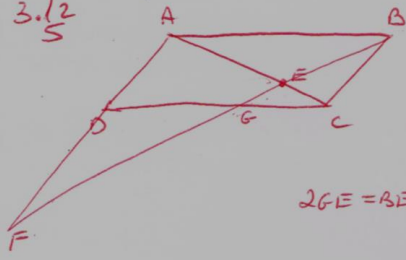


3.12  
S



(S.S)  $\triangle ABE \sim \triangle CGE$

$$\frac{2}{1} = \frac{AE}{EC} = \frac{AB}{GC}$$

$$2GC = AB = DC \Rightarrow$$

831K. G  
DC

$$2GE = BE \leftarrow \frac{2}{1} = \frac{AE}{EC} = \frac{BE}{GE} \quad \text{1/NA 1/KEW}$$

$$GB = 3X \leftarrow BE = 2X \quad GE = X \quad (NO)$$

$$DG \parallel AB \Rightarrow \frac{1}{2} = \frac{DG}{AB} = \frac{FG}{FB} \rightarrow 2FB = FB$$

$$\frac{1}{BE} = \frac{1}{BG} + \frac{1}{BF}$$

$$\leftarrow \frac{1}{2} = \frac{1}{3X} + \frac{1}{6X} \quad \checkmark$$

$$\frac{1}{2X} = \frac{1}{3X} + \frac{1}{6X} \quad \checkmark$$

$$2FB = FB \Rightarrow FB = 6X$$