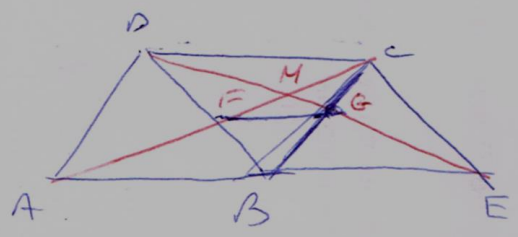


1.29  
5



CC

(as  $NC$  is  $AB$  and  $AD$  and  $BC$ )  $BC \parallel FG$   
 $AC \parallel F$

$FG \parallel AB \parallel DC$ ,  $\triangle ABX \sim \triangle YCN$   $\therefore FG$

$$FG = \frac{1}{2} AB = \frac{1}{2} DC, \quad AB = DC = BE$$

$$FG = \frac{1}{4} AE$$

(S.S)  $\triangle FMG \sim \triangle DMC$

$$\frac{1}{2} = \frac{FG}{DC} = \frac{FM}{MC} \rightarrow FM = \frac{1}{2} MC$$

$$AC = 6x \leftarrow FC = 3x \leftarrow MC = 2x \leftarrow FM = x \text{ (not)}$$

$$\frac{ME}{AC} = \frac{x}{6x} = \frac{1}{6}$$

$$\frac{1}{2} DM = MG \leftarrow \frac{FG}{DC} = \frac{MG}{DM} = \frac{1}{2} \text{ (S.S) } \quad \frac{CM}{MA} = \frac{2x}{4x} = \frac{1}{2} \text{ (S.S)}$$

$$DM = GE \rightarrow \frac{DM}{ME} = \frac{DM}{MG + GE} = \frac{DM}{\frac{1}{2} DM + \frac{1}{2} DM} = \frac{1}{2}$$