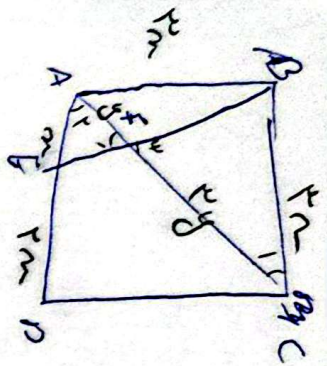
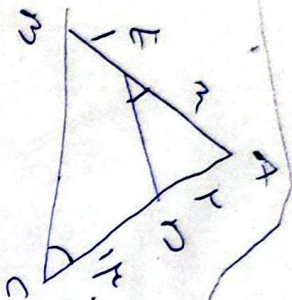


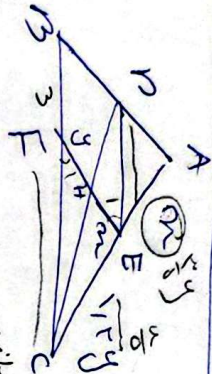


$EO = EA$ $BE = \sqrt{a^2 + m^2} = \sqrt{1 + m^2}$
 $\Rightarrow EF = \frac{1}{2} \sqrt{1 + m^2}$
 $\frac{EF}{AF} = ?$ $\Rightarrow AF = \frac{1}{2} \sqrt{1 + m^2}$
 $BF \perp AC \Rightarrow AF \perp BE$
 $AF \perp BE$

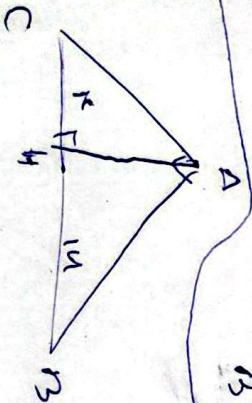
$\frac{BC}{AE} = \frac{m}{1} = m$
 $\frac{BC}{AE} = m$



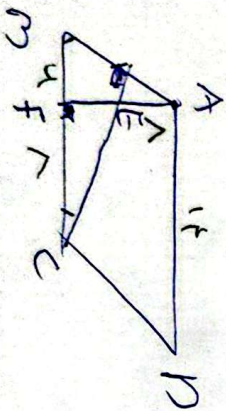
$\frac{BC}{AE} = m$
 $\frac{BC}{AE} = m$



$\frac{BC}{AE} = m$
 $\frac{BC}{AE} = m$



$\frac{BC}{AE} = m$
 $\frac{BC}{AE} = m$



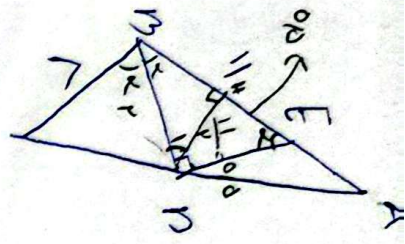
$\frac{BC}{AE} = m$
 $\frac{BC}{AE} = m$

(5)

$\frac{BC}{AE} = m$
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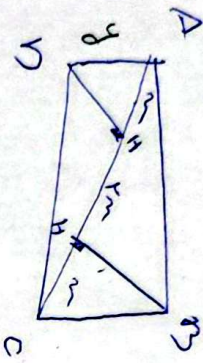
$\frac{BC}{AE} = m$
 $\frac{BC}{AE} = m$



$\therefore \triangle BDE$
 $\triangle BDE \sim \triangle BAC$
 $\therefore AE \parallel BC$

$$\frac{AE}{AC} = \frac{AD}{AB} \Rightarrow AE = AD$$

$AD \parallel BC \Rightarrow \angle D = \angle C$
 $\angle D = \angle C \Rightarrow \triangle BDE \sim \triangle BAC$
 $\therefore \triangle BDE \sim \triangle BAC$

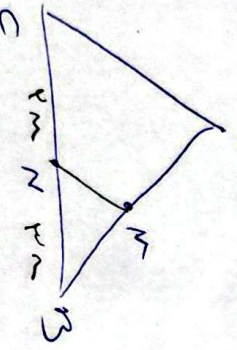


$$\frac{S_{ABCD}}{S_{BDE}}$$

$AD \parallel BC \Rightarrow \angle D = \angle C$
 $\angle D = \angle C \Rightarrow \triangle BDE \sim \triangle BAC$
 $\therefore \triangle BDE \sim \triangle BAC$

$$\frac{AE}{AC} = \frac{AD}{AB} \Rightarrow AE = AD$$

$$\frac{S_{ABCD}}{S_{BDE}} = \frac{AD}{AB}$$

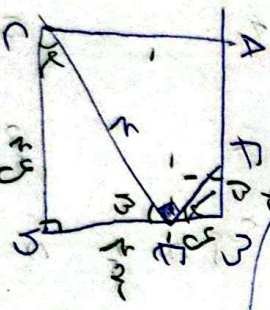


$$\frac{S_{ABCD}}{S_{BDE}} = \frac{AD}{AB}$$

$$\frac{S_{ABCD}}{S_{BDE}} = \frac{AD}{AB}$$

$$\frac{AE}{AC} = \frac{AD}{AB} \Rightarrow AE = AD$$

$$\frac{AE}{AC} = \frac{AD}{AB} \Rightarrow AE = AD$$



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