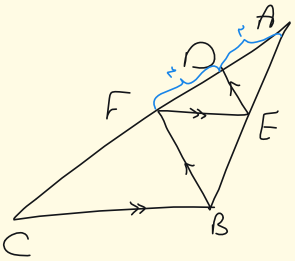
در شکل زیر $\overline{AD}=2$ ، $FD=4$ ، $DE \parallel FB$ ، $EF \parallel BC$ و $\overline{FC}=?$ باشد



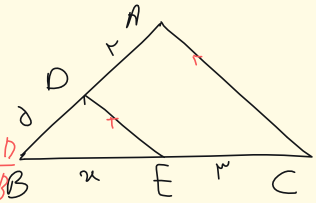
$\triangle AFB \xrightarrow{DE \parallel FB} \frac{\overline{AD}}{\overline{DF}}=\frac{\overline{AE}}{\overline{EB}}$

$\triangle ABC \xrightarrow{FE \parallel BC} \frac{\overline{AF}}{\overline{FC}}=\frac{\overline{AE}}{\overline{EB}}$

$\Rightarrow \frac{\overline{AD}}{\overline{DF}}=\frac{\overline{AF}}{\overline{FC}} \Rightarrow \frac{2}{4}=\frac{6}{\overline{FC}}$

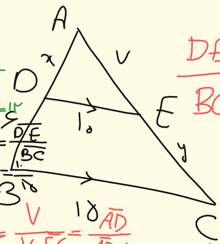
$\Rightarrow \overline{FC}=12$

در شکل زیر $x=?$ ، $DE \parallel AC$



$\frac{DE}{BC}=\frac{AE}{AC}=\frac{AD}{AB}$

$\frac{\overline{BD}}{\overline{DA}}=\frac{\overline{BE}}{\overline{EC}} \Rightarrow \frac{5}{2}=\frac{x}{3} \Rightarrow \frac{15}{2}=x$



$\overline{AD}=?$ ، $\overline{EC}=?$

$\frac{x}{x+6}=\frac{10}{15}$

$15x=10x+60$

$5x=60 \Rightarrow x=12$

$\frac{\overline{AD}}{\overline{AB}}=\frac{\overline{AE}}{\overline{AC}}=\frac{\overline{DE}}{\overline{BC}}$

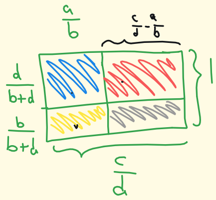
$\frac{x}{x+6}=\frac{7}{7+y}=\frac{10}{15}$

$\frac{10}{15}=\frac{7}{7+EC}=\frac{\overline{AD}}{\overline{AD}+6}$

$7\times15=10(7+y)$

$10y=35 \Rightarrow y=3.5$

$12+2\overline{AD}=3\overline{AD} \Rightarrow \overline{AD}=12$



$\frac{d}{b+d}\times\frac{a}{b}+\frac{b}{b+d}\times\frac{a}{b}=\frac{a}{b}$

$\frac{a}{b}\left(\underbrace{\frac{d+b}{b+d}}_{1}\right)$

$\frac{7}{10}<\frac{12}{17}<\frac{5}{7}$

$\frac{49}{70}<\frac{c}{d}<\frac{50}{70}$

d,c

$\frac{7}{10}<\frac{5}{18}<\frac{5}{7}$

$\frac{1399}{1000}<\frac{m}{n}<\frac{14}{10}$

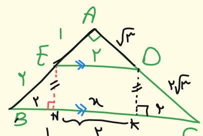
$0<\sqrt{2}-\frac{m}{n}<0.001$ ، $\frac{m}{n}=\frac{1413}{1010}$ ، $\sqrt{2}\simeq 1.41421356...$

$0<1.4-\frac{m}{n}<0.001$

$-1.4<-\frac{m}{n}<0.001-1.4$

$\Rightarrow 1.4-0.001<\frac{m}{n}<1.4$

$\frac{1414212}{999999}=\frac{471404}{333333}$

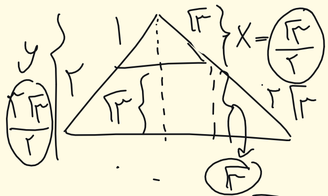


$S_{EDBC}=?$

$\left(\frac{3\times3\sqrt{3}}{2}\right)-\frac{1\times\sqrt{3}}{2}$

$\frac{9}{2}\sqrt{3}-\frac{\sqrt{3}}{2}=\frac{8\sqrt{3}}{2}=4\sqrt{3}$

$\frac{AE}{AB}=\frac{ED}{BC} \Rightarrow \frac{1}{3}=\frac{ED=2}{x}$ ، $x=6$



$X=\frac{\sqrt{3}}{2}$ ، $y=\frac{3\sqrt{3}}{2}$

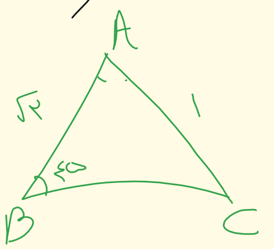
$1\times\sqrt{3}=2x$

$\to x=\sqrt{3}/2$

$6xy=3\times3\sqrt{3}=9\sqrt{3}$

$\to y=\frac{9\sqrt{3}}{6}=\frac{3\sqrt{3}}{2}$

$\frac{3\sqrt{3}}{2}-\frac{\sqrt{3}}{2}=\frac{2\sqrt{3}}{2}=\sqrt{3}$



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