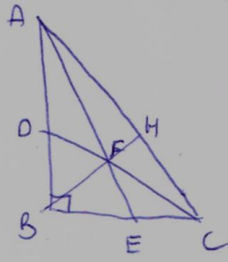


1.75
5



$$AC = \sqrt{24^2 + 18^2} = 30$$

$$\frac{AD}{BD} = \frac{AC}{BC}$$

صورتی است
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$$\frac{x}{24-x} = \frac{30}{18} \rightarrow x = 15$$

$$DC = \sqrt{BD^2 + BC^2} = \sqrt{9^2 + 18^2} = \sqrt{405} = 9\sqrt{5}$$

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$$\frac{AB}{AC} = \frac{BE}{EC}$$

$$\frac{24}{30} = \frac{BE}{18-BE} \rightarrow BE = 8$$

$$AE = \sqrt{AB^2 + BE^2} = \sqrt{24^2 + 8^2} = \sqrt{640} = 8\sqrt{10}$$