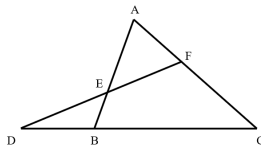


C. $\frac{2}{5}\sqrt{2}$
 E. $\frac{1}{2}\sqrt{2}$

D. $\frac{9}{20}\sqrt{2}$

- 5 (1分) In triangle ABC , point D lies on the extension of BC , and point F lies on AC . Line DF intersects AB at point E . Given $AE : BE = 3 : 2$ and $DE : EF = 5 : 4$, what is the ratio of $AF : FC$?



A. $\frac{1}{4}$
 E. $\frac{4}{9}$

B. $\frac{5}{16}$

C. $\frac{1}{3}$

D. $\frac{7}{18}$