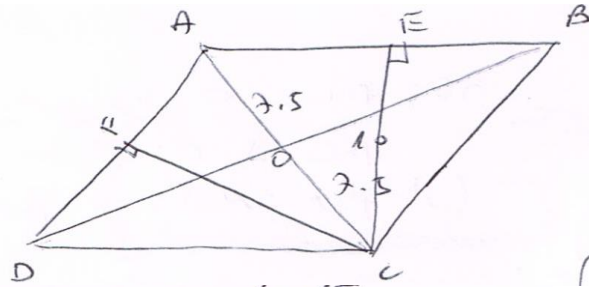


1.115
5



$$S_{ABC} = \frac{10 \cdot 15}{2} = 75$$

$$AB = \sqrt{10^2 + 7.5^2} = 12.5$$

$$S_{ABC} = \frac{CE \cdot AB}{2}$$

$$\frac{\sqrt{10^2 + 7.5^2} \cdot CE}{2} = 75 \rightarrow CE = \frac{150}{12.5} = 12$$

$$(S.S.S) \triangle CDF \cong \triangle BEC \Rightarrow EC = EF$$

$$\Rightarrow AF = EB$$

$$EB = \sqrt{BC^2 - EC^2} = \sqrt{12.5^2 - 12^2} = 3.5$$

$$AF = 12.5 - 3.5 = 9$$

$$S_{AFCE} = 2 S_{AEC} = 2 \cdot \frac{AF \cdot EC}{2} = 9 \cdot 12 = 108$$