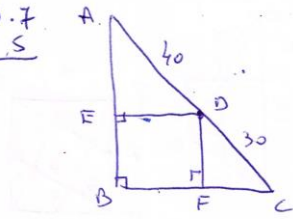


0.7
S



$$ED = DF = x \quad (NO)$$

NOI 90° 1/1/3 47 82m E DFB

(ED = DF) 1/1/2 1/1/2 1/1/2

82m E DFB 1/1/1

$$DF = FB = EB = ED = x$$

$$(S.S.) \triangle ABC \sim \triangle DFC \Rightarrow \frac{ED}{BC} = \frac{AD}{AC} \rightarrow \frac{x}{x + \sqrt{900 - x^2}} = \frac{40}{30} \rightarrow \boxed{x = 24}$$

$$BC = x + \sqrt{900 - x^2} = 42 \rightarrow AB = 56$$