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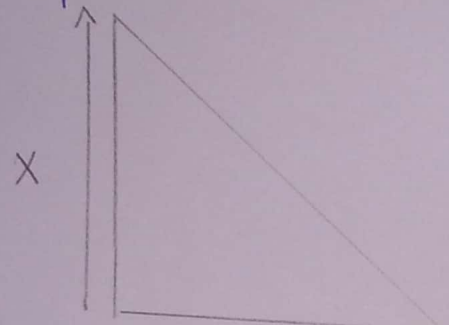
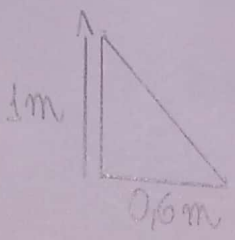
Tarefa Básica - Semelhança de Triângulos

01. (FUVEST) A sombra de um poste vertical, projetada pela sol sobre um chão plano, mede 12m. Nesse mesmo instante, a sombra de um bastão vertical de 1m de altura mede 0,6m. A altura do poste é:





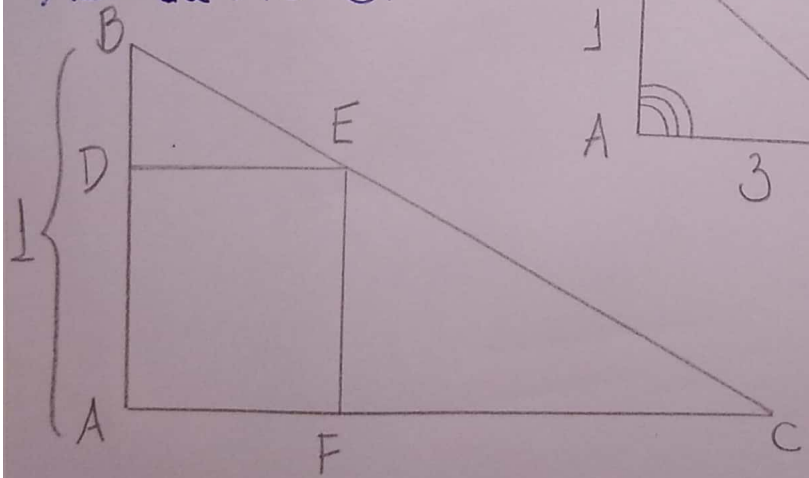
$$\frac{X}{1} \xrightarrow{X} \frac{12}{0,6} \qquad X = \frac{12}{0,6}$$

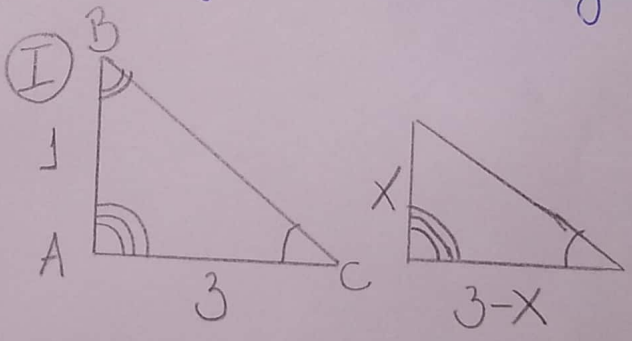
$$X = \boxed{20m}$$

R: Letra (D) 20m.

02. (FUVEST) Na figura, o triângulo ABC é retângulo em A, ADEF é um quadrado,

AB = 1 e AC = 3.





$$\frac{1}{X} \xrightarrow{X} \frac{3}{3-X} \qquad 3X = 3 - X$$

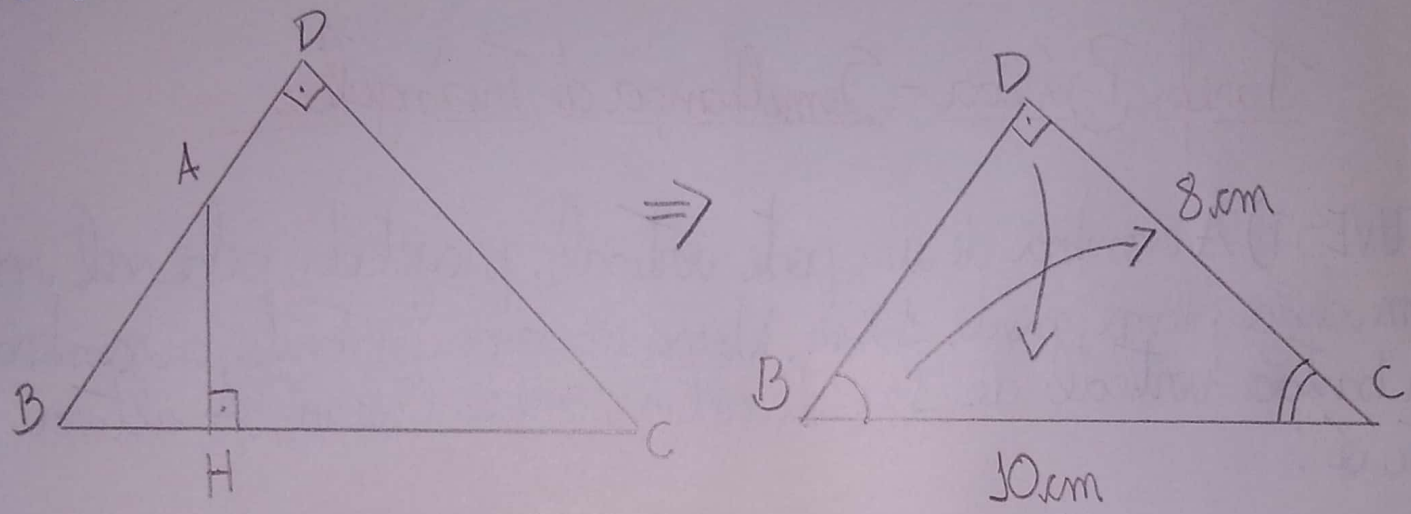
$$4X = 3$$

$$X = \frac{3}{4}$$

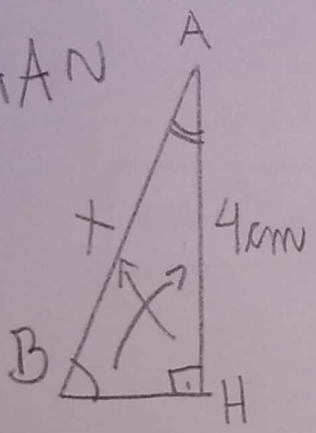
$$X = \boxed{0,75}$$

R: Letra (B) 0,75.

03. (MACK) Na figura AH = 4, BC = 10 e DC = 8. A medida de AB é



AAN



$\frac{8}{4} - \frac{10}{x} = 2x = 10$

$\boxed{x = 5}$ //

R: Letra (C) 5,0.