



EJA

CANAL SEDUC-PI5



PROFESSOR (A):

**ALEXSANDRO
KESLLER**



DISCIPLINA:

MATEMÁTICA



AULA Nº:

04



CONTEÚDO:

**TRIÂNGULO
RETÂNGULO**



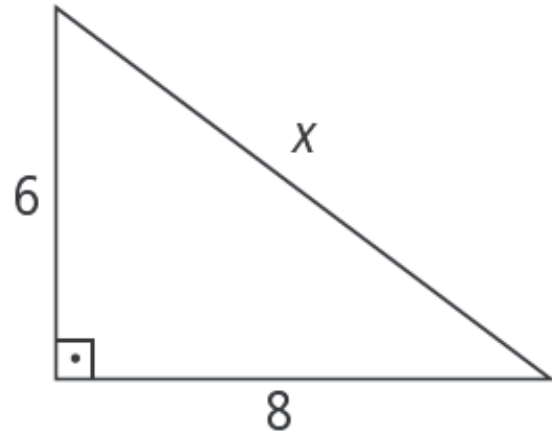
DATA:

07/05/2020

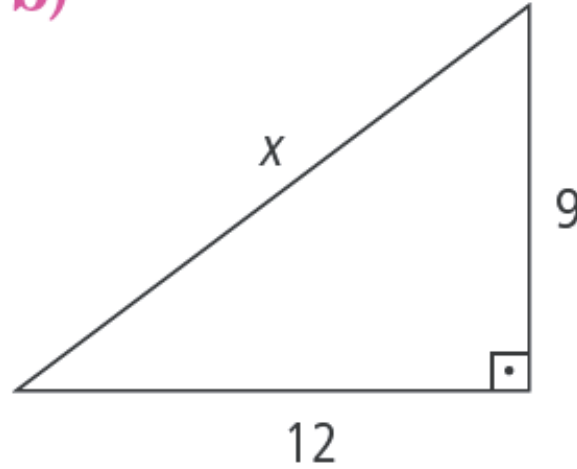
ATIVIDADE

01. Calcule o valor de x nos triângulos retângulos.

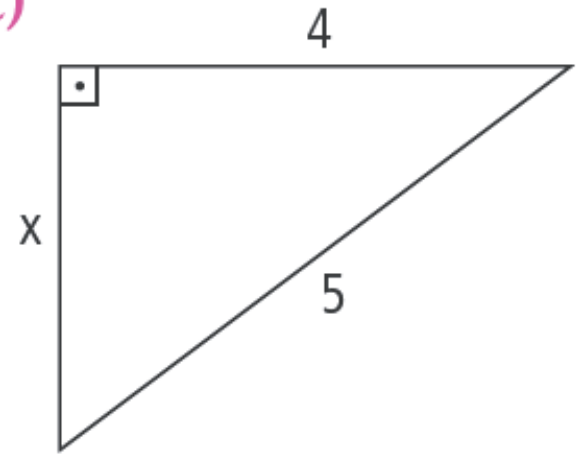
a)



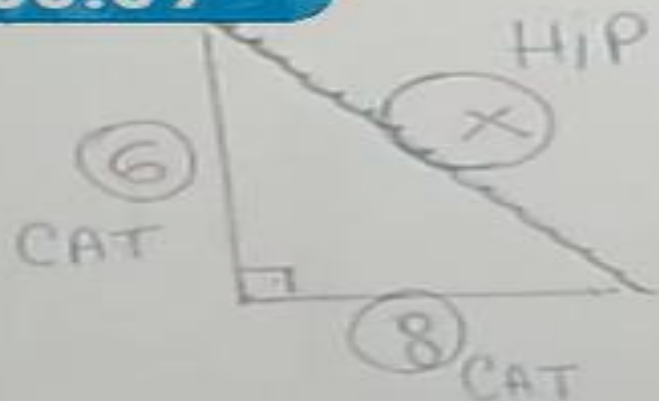
b)



c)



00:09



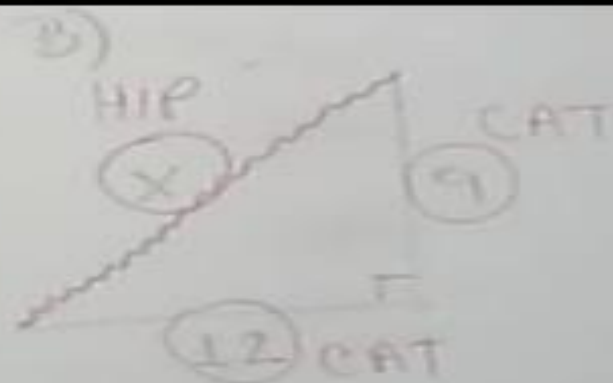
$$(\text{HIP})^2 = (\text{CAT})^2 + (\text{CAT})^2$$

$$x^2 = 6^2 + 8^2$$

$$x^2 = 36 + 64$$

$$x^2 = 100$$

$$x = \sqrt{100} = 10$$



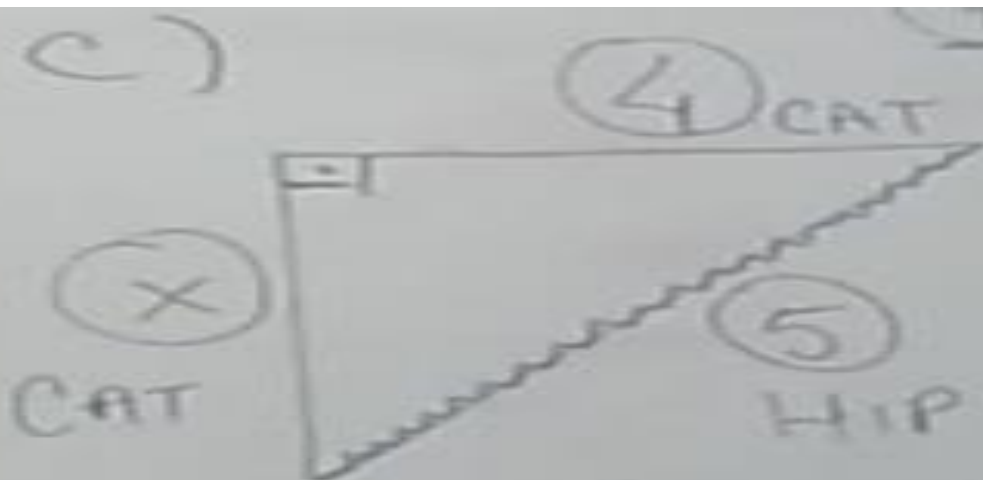
$$(\text{HIP})^2 = (\text{CAT})^2 + (\text{CAT})^2$$

$$x^2 = 12^2 + 9^2$$

$$x^2 = 144 + 81$$

$$x^2 = 225$$

$$x = \sqrt{225} = 15$$



$$5^2 = x^2 + 4^2$$

$$25 = x^2 + 16$$

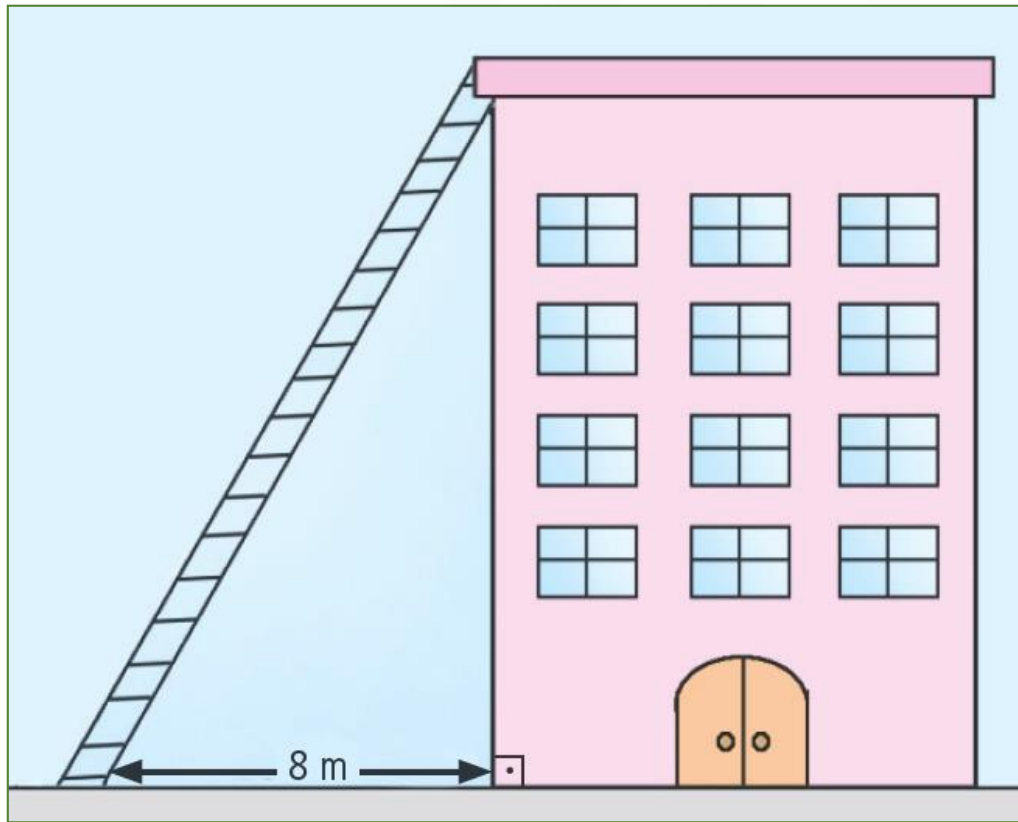
$$x^2 = 25 - 16$$

$$x^2 = 9$$

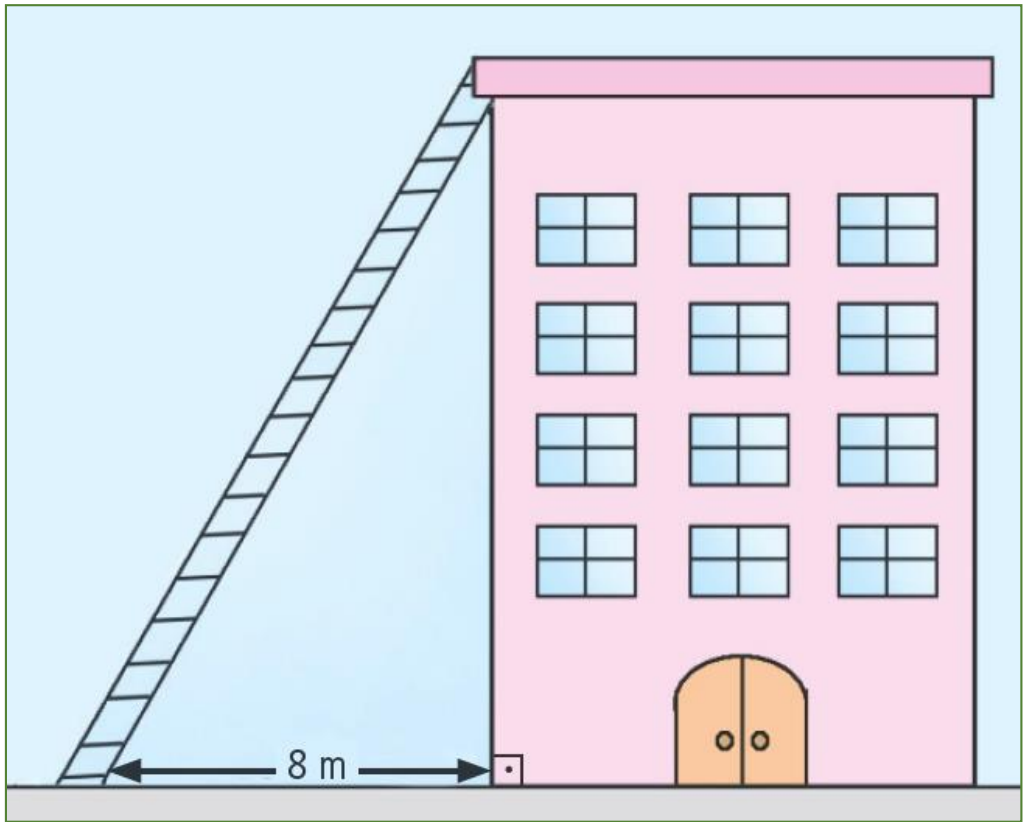
$$x = \sqrt{9} = \boxed{3}$$

ATIVIDADE

02. A figura mostra um edifício que tem 15 m de altura. Qual é o comprimento da escada que está encostada na parte superior do prédio?



Solução



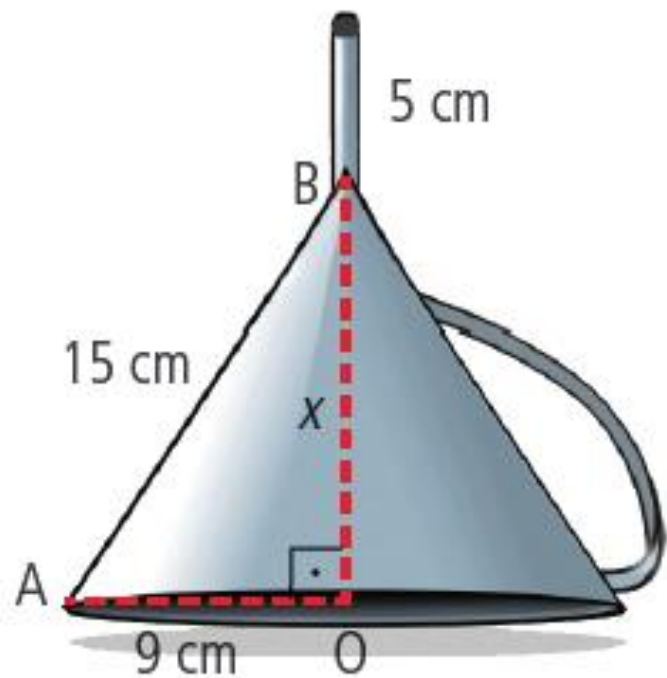
PITÁGORAS

$$(HIP)^2 = (CAT)^2 + (CAT)^2$$
$$X^2 = 8^2 + 15^2$$
$$X^2 = 64 + 225$$
$$X^2 = 289$$
$$X = \sqrt{289}$$
$$X = 17m$$

17

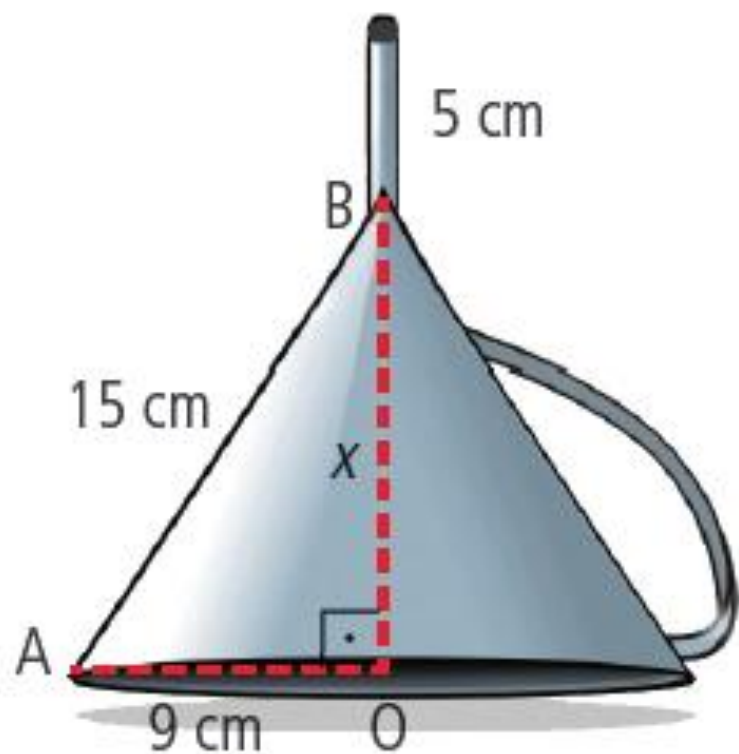
ATIVIDADE

03. Qual é a altura do funil representado pela figura?



Canal
Educação
PROGRAMA DE MEDIAÇÃO TECNOLÓGICA

Solução



3.

Handwritten diagram of a cone. The slant height is labeled as 15 cm. The radius of the base is labeled as 9 cm. The height is labeled as 'x' cm. The total height is labeled as 'H'. A right-angle symbol is shown at the center of the base. The word 'HIP' is written next to the slant height, and 'CAT' is written next to the height 'x'.

PITÁGORAS!

$$(HIP)^2 = (CAT)^2 + (CAT)^2$$

$$(15)^2 = 9^2 + x^2$$

$$225 = 81 + x^2$$

$$x^2 = 225 - 81$$

$$x^2 = 144$$

$$x = \sqrt{144}$$

$$x = 12 \text{ cm}$$

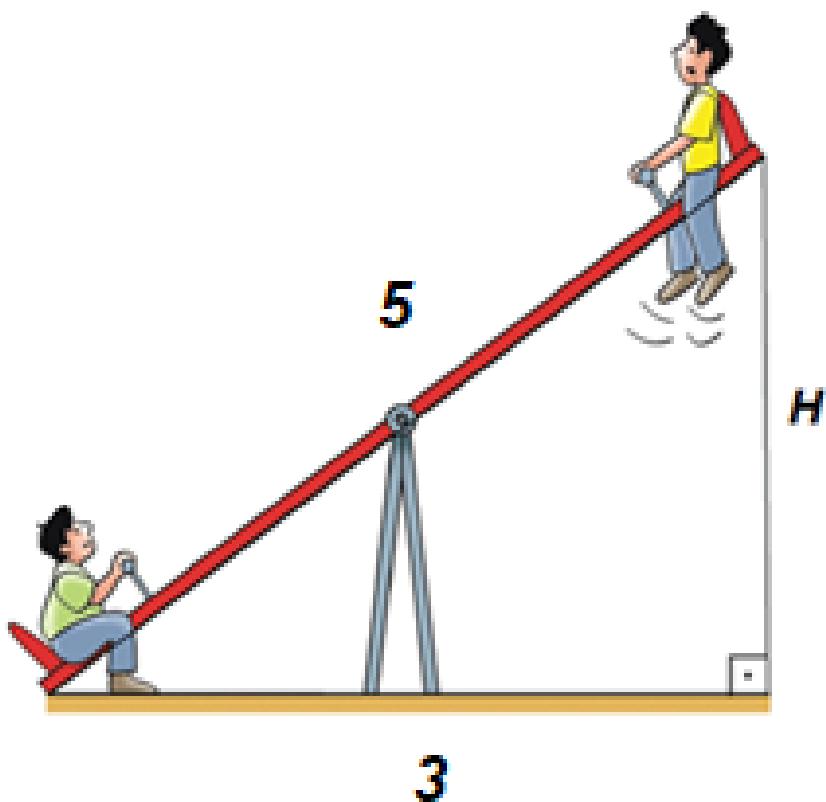
$$H = x + 5 \text{ cm}$$

$$H = 12 + 5$$

$$H = 17 \text{ cm}$$

ATIVIDADE PARA CASA

02. Dois amigos brincam em uma gangorra como mostra a figura abaixo.



A maior altura atingida por um deles é igual a

- A) 4 m
- B) 5 m
- C) 6 m
- D) 7 m
- E) 8 m