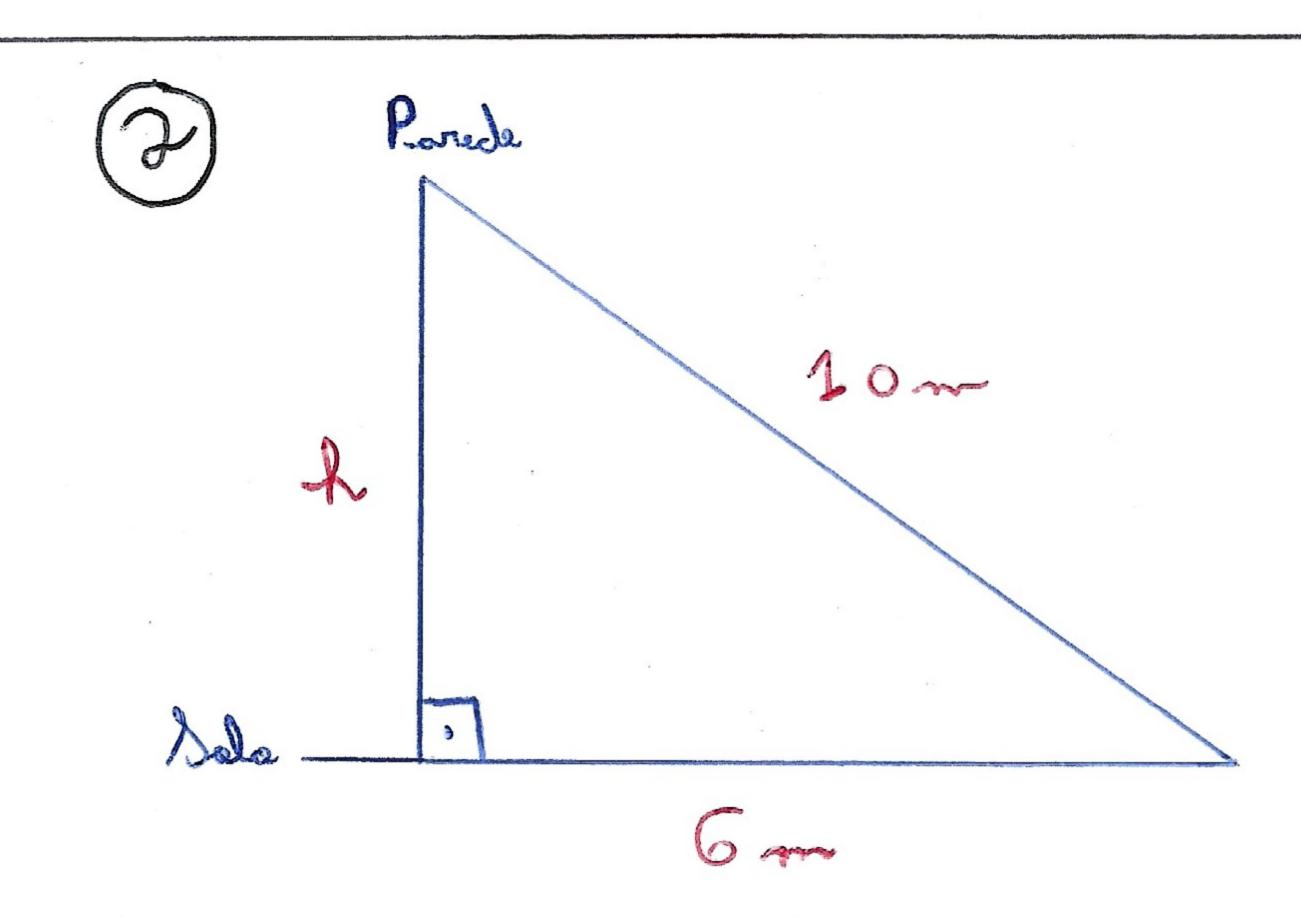


TEOREMA DE PITAGORAS

$$(\sqrt{4})^{3} + (\sqrt{3})^{3} = x^{3}$$



TEOREMA DE PITÁGORAS

R: 8 m

 $(3) \quad \overline{CD} = 9c = ?$ 

 $x^{2} + 2^{3} = w^{3}$   $y + 2 = w^{3}$   $y = \sqrt{5}$ 

TEOREMA DE PITAGORAS

$$x^{2} + 4y^{-3} = x^{2} + (-\sqrt{5})^{2} = x^{2} + 5 = 9$$

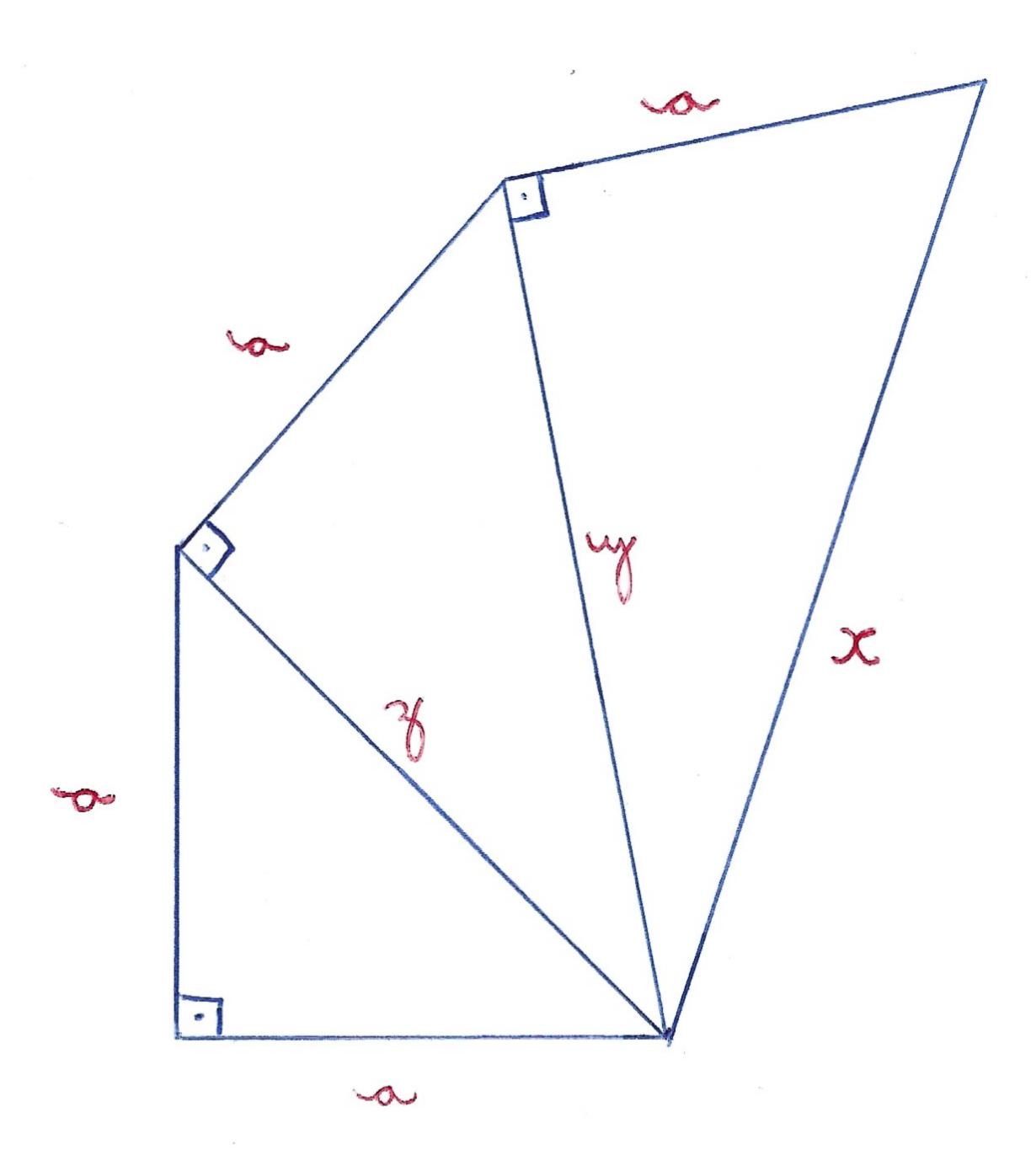
$$x^{2} + 5 = 9$$

$$x^{2} = 9 - 5$$

$$x^{2} = 4$$

$$x^{2} = \sqrt{4}$$

$$x^{2} = \sqrt{4}$$



## TEOREMA DE PITAGORAS

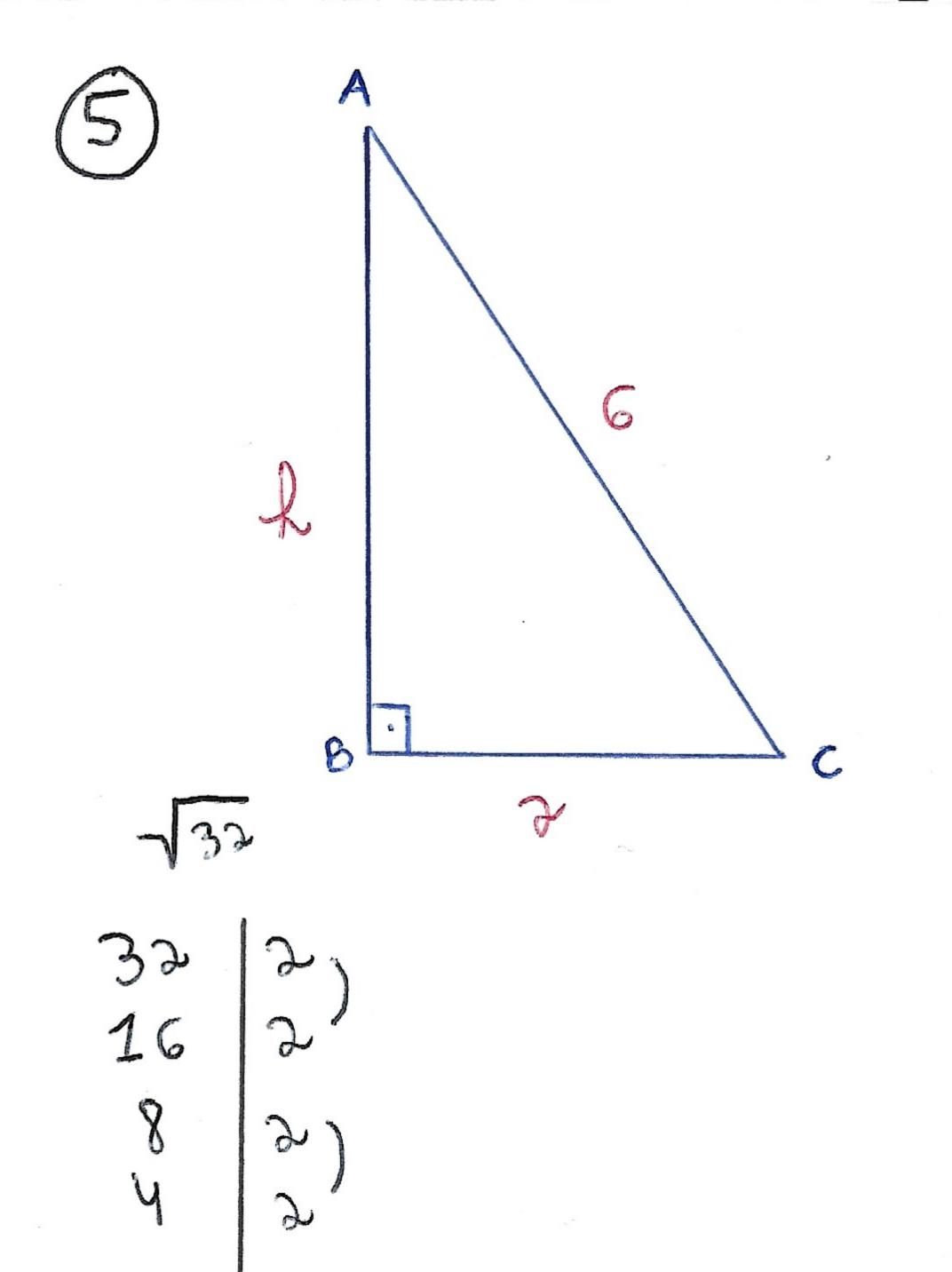
$$3^{2} + a^{2} = w^{2}$$
 $2a^{2} + a^{2} = w^{2}$ 
 $w^{2} = 3a^{2}$ 

$$3c^{2} = a^{2} + w^{2}$$

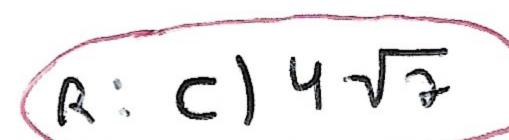
$$3c^{2} = a^{2} + 3a^{2}$$

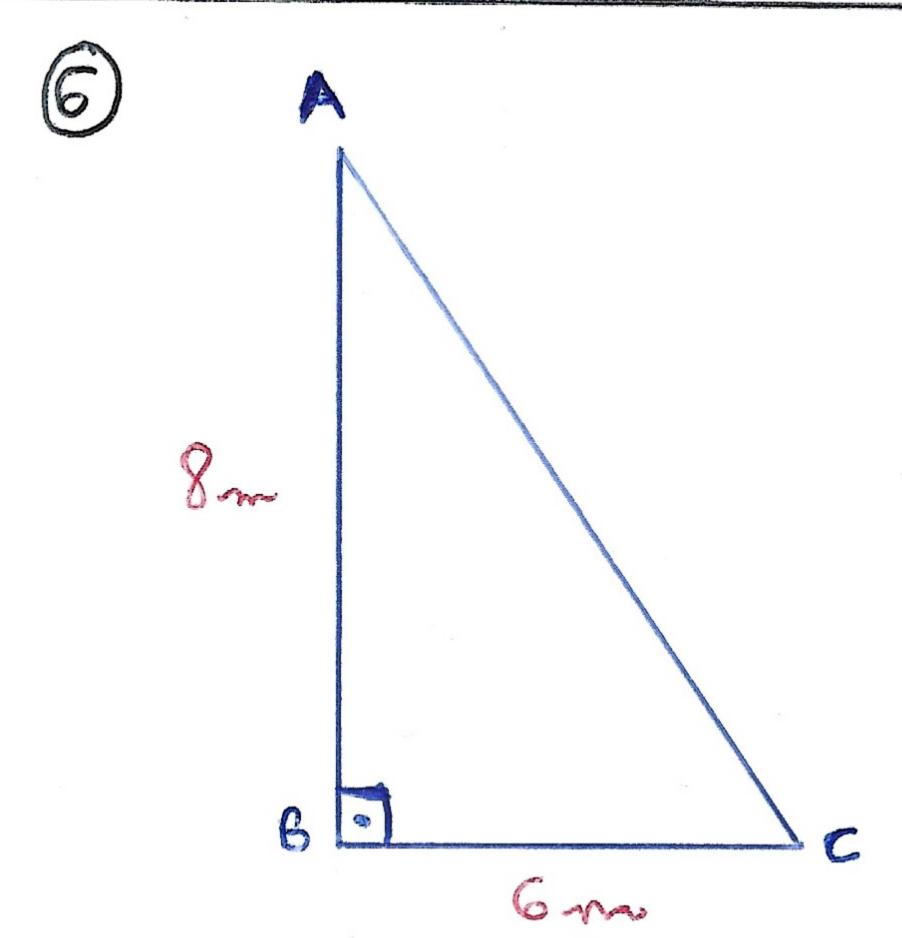
$$3c^{2} = 4a^{2}$$

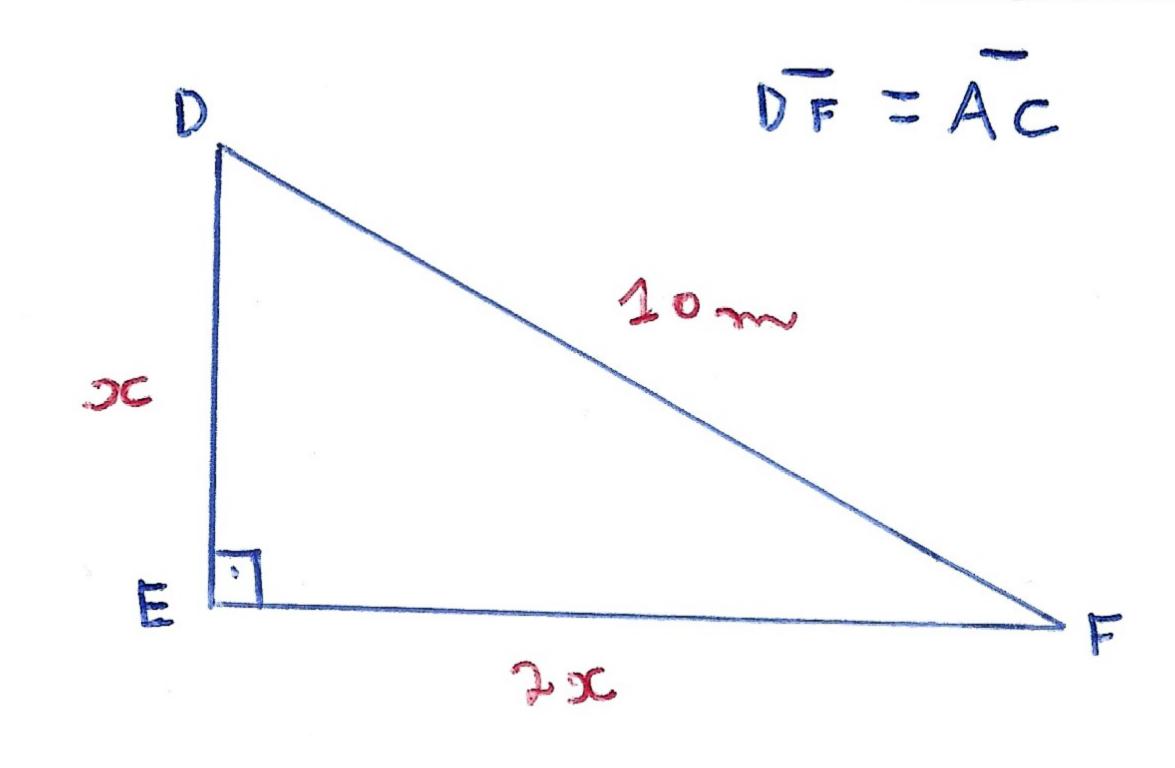
$$3c = \sqrt{4a^{2}}$$



ママママ= 412







CONSIDERANDO O TRIÂNGULO PITAGÓRICO 13,4 e 51, temes:

$$AB = 8m (2.4)$$
 $BC = 6m (2.3)$ 
 $AC = 10m (2.5)$ 

$$(2x)^{2} + x^{2} = 10^{3}$$

$$4x^{2} + x^{2} = 100$$

$$5x^{2} = 100$$

$$9x^{2} = \frac{100}{5}$$

$$x^{2} = 20$$

$$x^{2} = \sqrt{20}$$

$$x^{2} = \sqrt{20}$$

$$x^{3} = \sqrt{20}$$

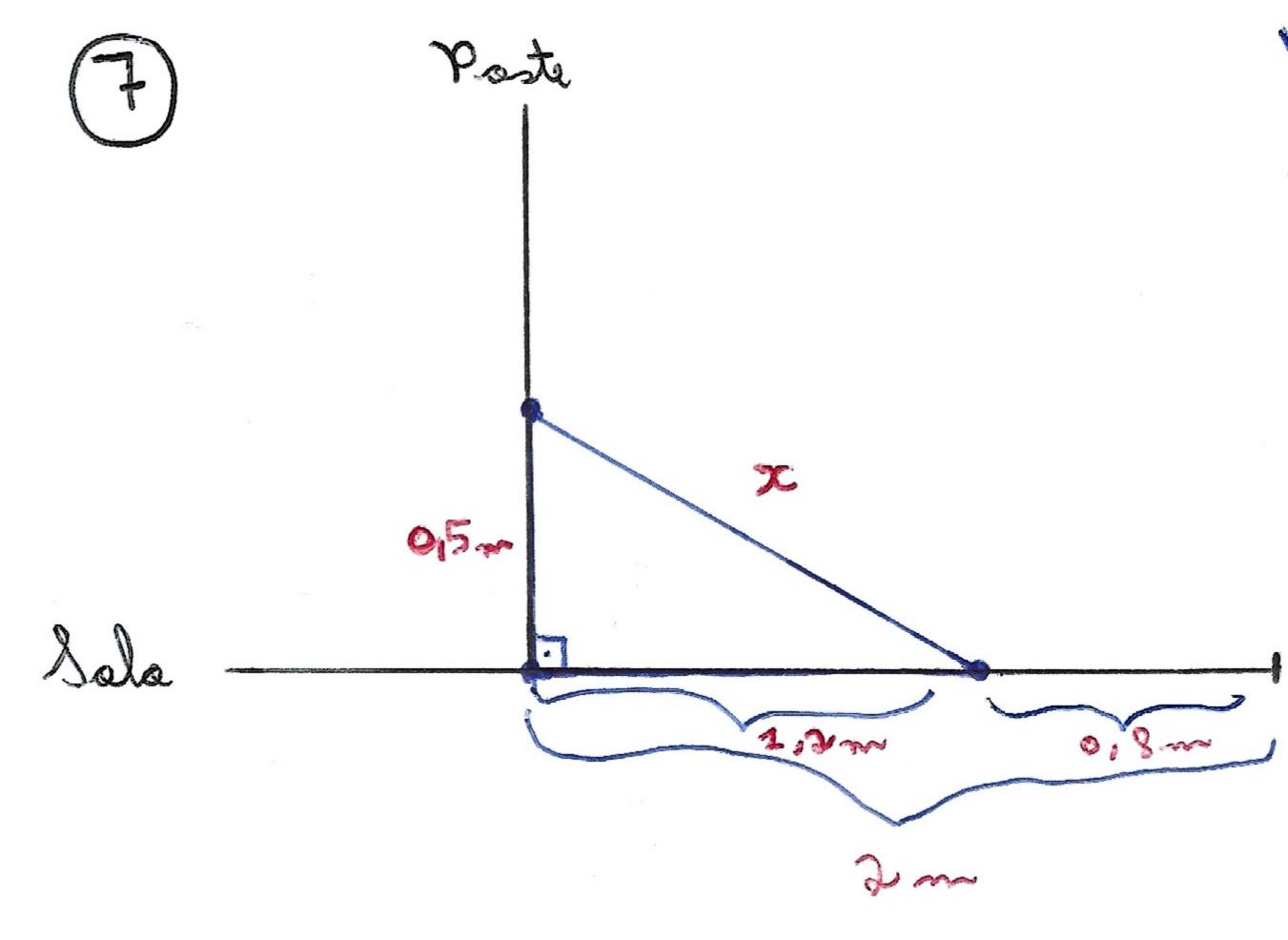
$$x^{4} = \sqrt{20}$$

$$x^{2} = \sqrt{20}$$

$$x^{2} = \sqrt{20}$$

$$x^{3} = \sqrt{20}$$

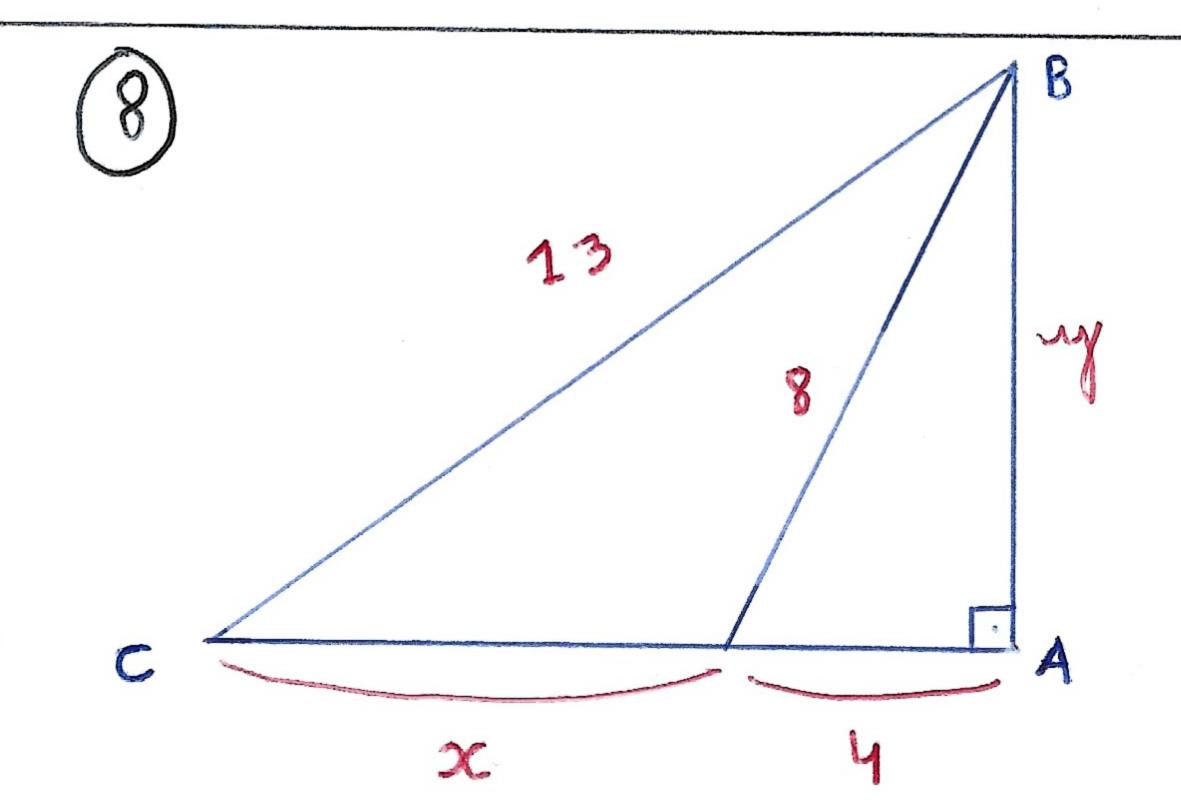
$$x^{4} = \sqrt{20}$$



F = 5.10 = 50 = V == 10 cm/2 -D A = 5.16 cm = 80 cm VA = 16 cm/2

$$x = \sqrt{1,69} m$$

$$x = \sqrt{1,69} m$$



$$(4\sqrt{3})^{2} + (4+x)^{2} = 13^{3}$$
  
 $48 + 4^{2} + 2 \cdot 4x + x^{2} = 169$   
 $48 + 16 + 8x + 0c^{2} = 169$   
 $64 + 8x + x^{2} = 169$   
 $64 + 8x + x^{2} = 169 = 0$ 

202 + 80c - 105 = 0

TEOREMA DE PITAGORAS

$$y^{2} + 4^{3} = 8^{3}$$
 $y^{3} + 4^{3} = 64$ 
 $y^{2} = 64 - 16$ 
 $y^{2} = 48$ 
 $y = \sqrt{48} = 2.2 - \sqrt{3} = 4 - \sqrt{3}$ 

$$x^{2} + 8x - 205 = 0 \qquad 0 = 1$$

$$x = 8$$

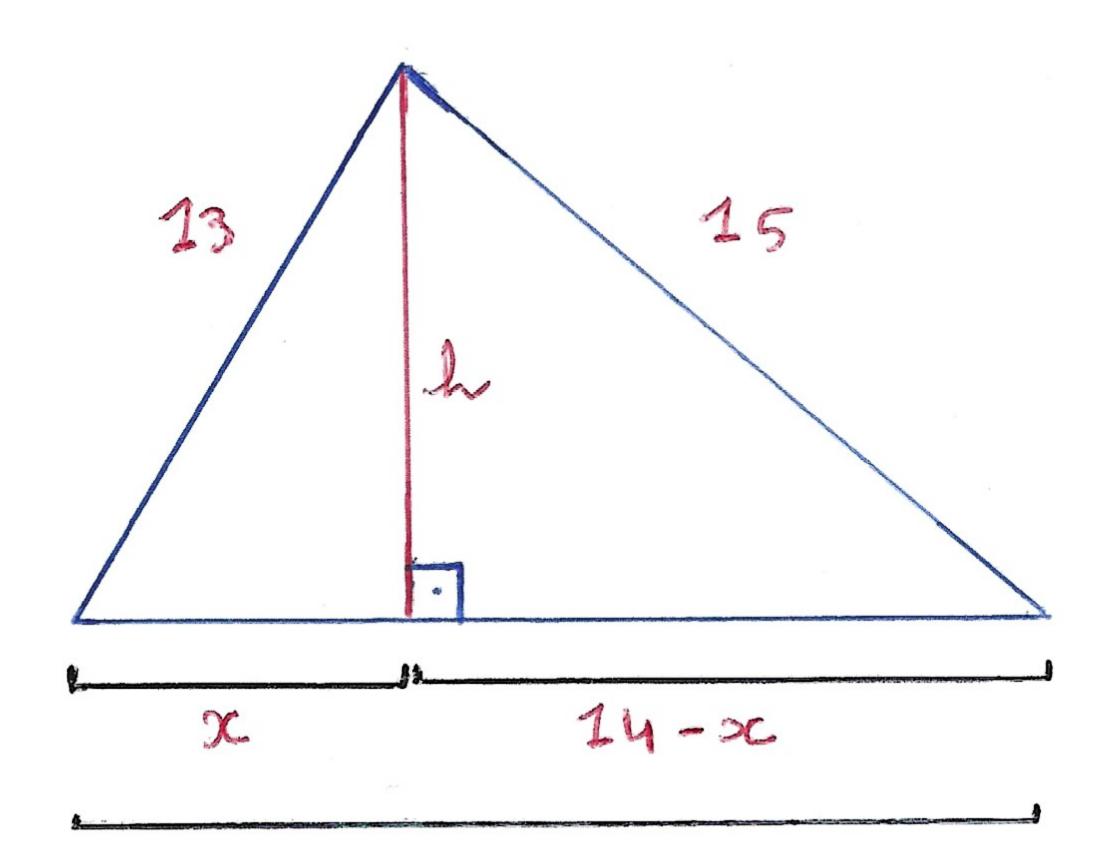
$$c = -205$$

$$7 + (-15) = -8$$

Dadre que noma variand x não pade son ren respertant ; rement, atretas ment , varitagem na

PRODUTO





14

## COM O TEOREMA DE PITAGORAS:

$$\lambda^{2} + \alpha^{2} = 23^{2} \qquad \lambda^{2} + (24 - \alpha)^{2} = 25^{2}$$

$$\lambda^{2} = 13^{2} - \alpha^{2} \qquad \lambda^{2} = 15^{2} - (24 - \alpha)^{2}$$

$$15^{2} - (14-x)^{2} = 13^{2} - x^{2}$$

$$-15^{2} - 14^{2} + 2.14x - x^{2} = 13^{2} - x^{2}$$

$$15^{2} - 14^{2} + 28x - x^{2} = 13^{2} - x^{2}$$

$$15^{2} - 14^{2} + 28x - \alpha^{2} = 13^{2} - x^{2}$$

$$28x - \alpha^{2} + \alpha^{2} = 13^{2} + 24^{2} - 25^{2}$$

$$28x = 169 + 196 - 225$$

$$28x = 140$$

$$x = 140$$

9c = 5

$$\lambda^{2} + x^{2} = 13^{2}$$

$$\lambda^{2} + 5^{2} = 13^{2}$$

$$\lambda^{2} = 13^{2} - 5^{2}$$

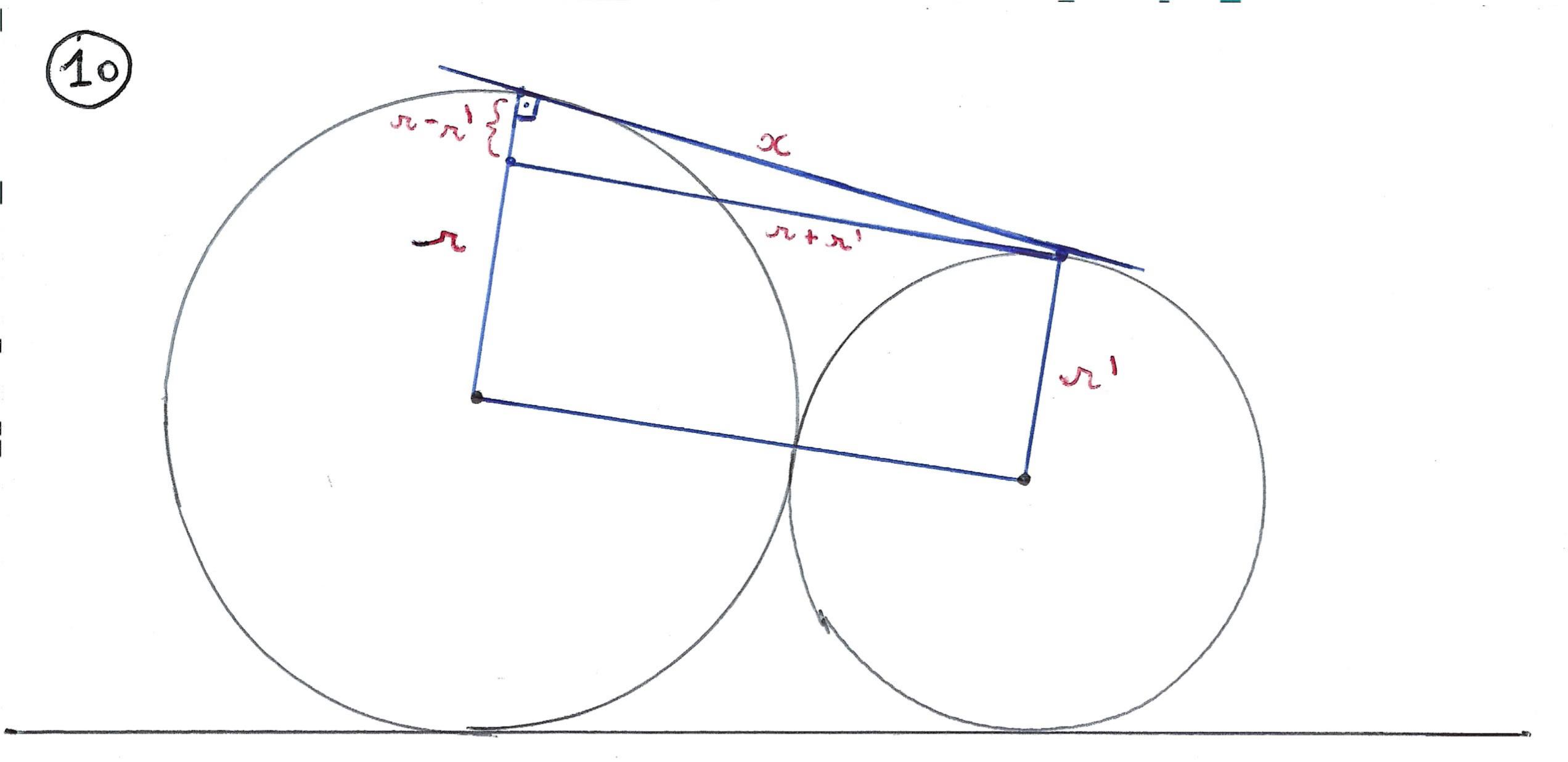
$$\lambda^{2} = 169 - 25$$

$$\lambda^{3} = 144$$

$$\lambda = \sqrt{144}$$

$$\lambda = 12$$

$$R: 12$$



TEOREMA DE PITAGORAS

(n-n') + 2c = n + n'

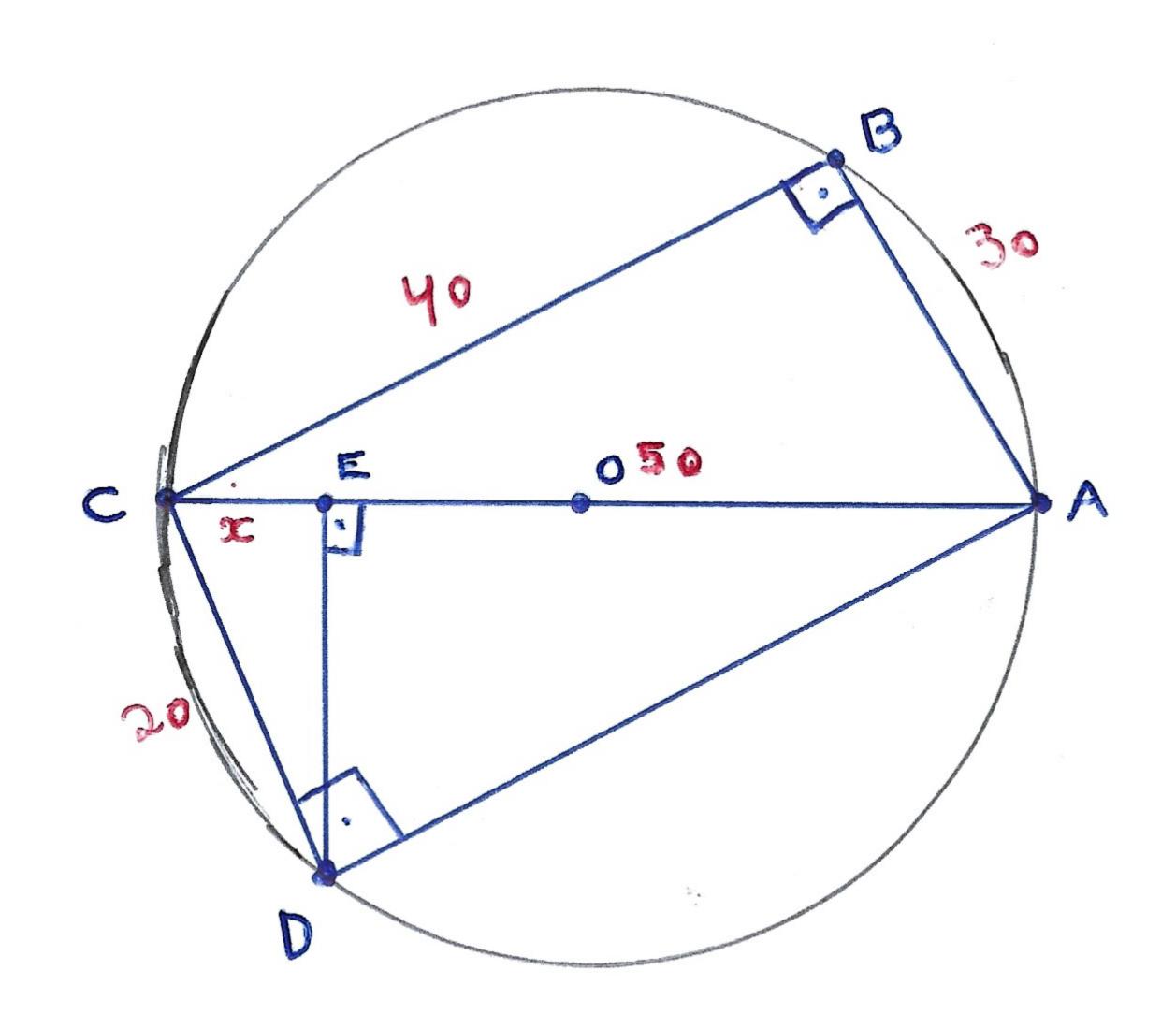
 $x^{2} - 2x \cdot x' + x'^{2} + x'^{2} + x'^{2} + x' \cdot x' + x'^{2}$   $x^{2} = x^{2} - x^{2} + 2x \cdot x' + 2x \cdot x' + x'^{2} - x'^{2}$   $x^{3} = 4x \cdot x'$ 

x = - \( \frac{1}{4} \ta \cdot \n'

文ニュージス・ル

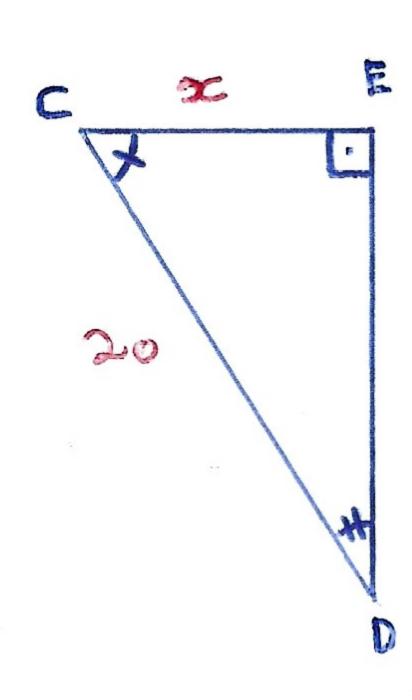
R: 2-Vr.n'

11



DADO O TRIANGULO PITAGÓRICO (3,425), temor:

SABENDO QUE TODO TRIÂNGULO
ESCRITO EM UMA SEMICIRCUNFERÊNCIA É UM TRIÂNGULO
RETÂNGULO, JEMOS QUE
ACBA & ACDA SÃO RETÂNGULOS



PELO CRITÉRIO

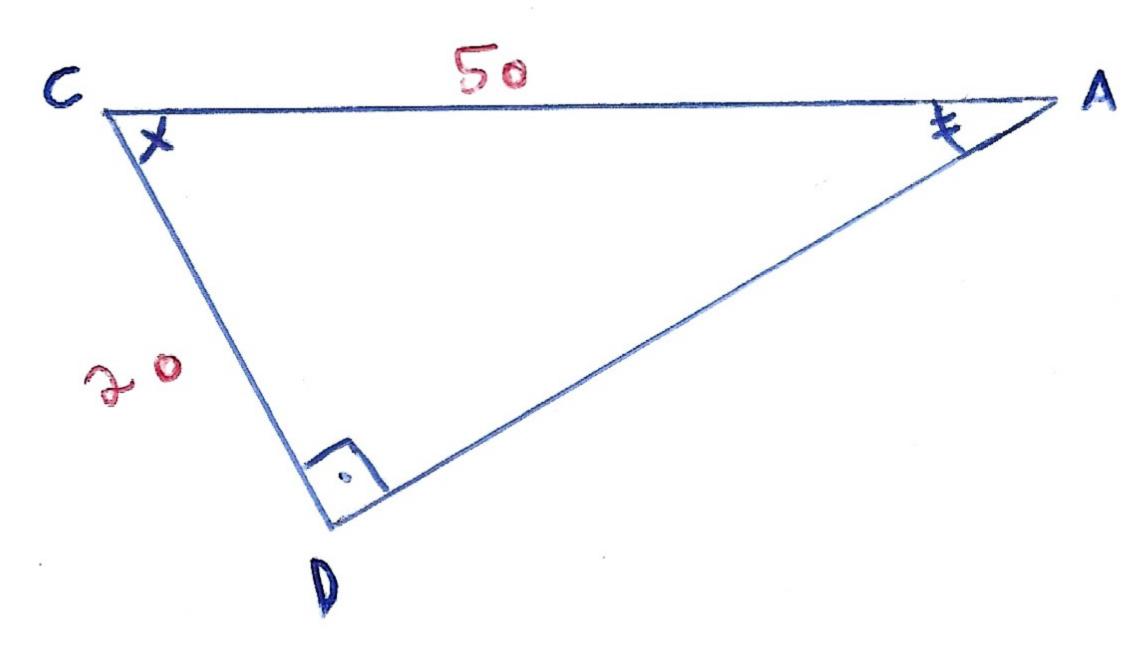
~ AA

\$\Delta CED \ \Delta CDA

500c = 400

$$x = \frac{400}{50}$$

oc = 8



R: c) 8