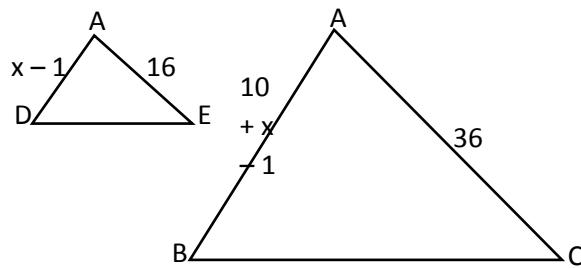
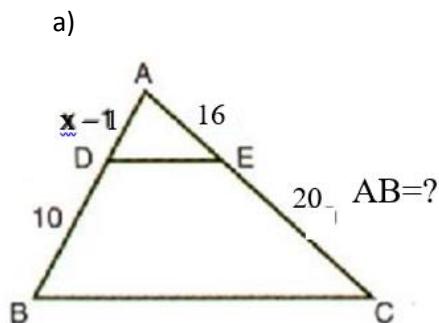


GABARITO DA LISTA 01


$$\frac{x-1}{x+9} = \frac{16}{36}$$

$$36x - 36 = 16x + 144$$

$$36x - 16x = 144 + 36$$

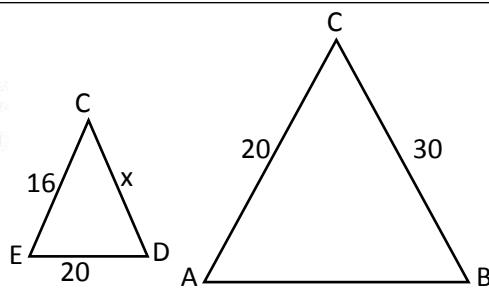
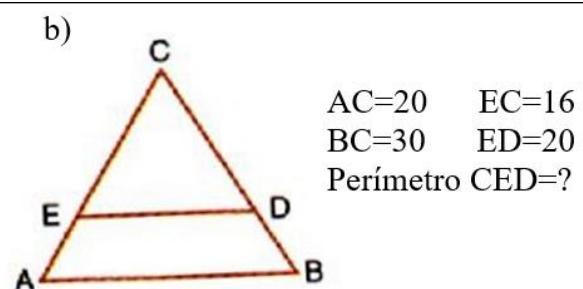
$$20x = 180$$

$$x = 180/20$$

$$x = 9$$

$$AB = 10 + 9 - 1$$

$$AB = 18$$



$$\frac{16}{20} = \frac{x}{30}$$

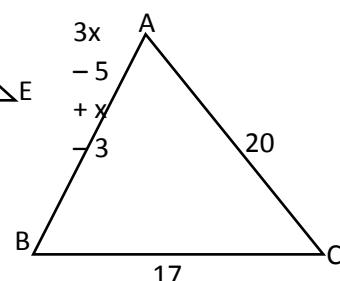
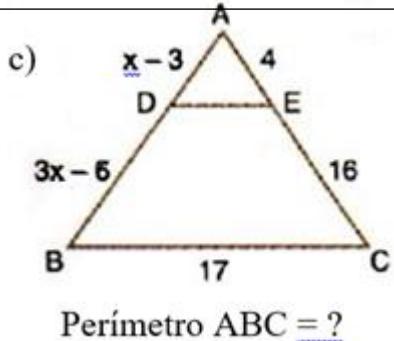
$$20x = 480$$

$$x = 480/20$$

$$x = 24$$

$$P_{CED} = 16 + 20 + 24$$

$$P_{CED} = 60$$



$$\frac{x-3}{4x-8} = \frac{4}{20}$$

$$20x - 60 = 16x - 32$$

$$20x - 16x = -32 + 60$$

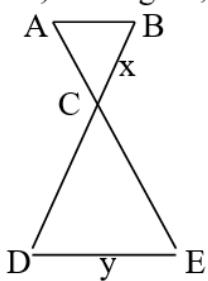
$$4x = 28$$

$$x = 7$$

$$P_{ABC} = 20 + 17 + 20$$

$$P_{ABC} = 57$$

d) Na figura, calcule  $x$  e  $y$ .



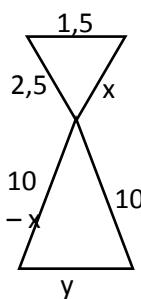
$$\overline{AB} \parallel \overline{DE}$$

$$AB = 1,5$$

$$AC = 2,5$$

$$BD = 10$$

$$CE = 10$$



$$\frac{x}{10-x} = \frac{2,5}{10}$$

$$\frac{10}{2,5} = \frac{y}{1,5}$$

$$10x = 2,5(10-x)$$

$$10x = 25 - 2,5x$$

$$10x + 2,5x = 25$$

$$12,5x = 25$$

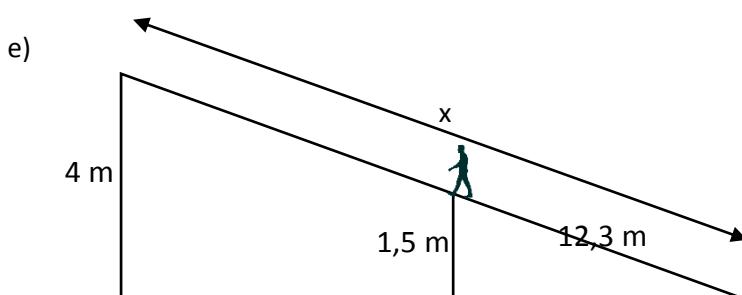
$$x = 25/12,5$$

$$x = 2$$

$$2,5y = 15$$

$$y = 15/2,5$$

$$y = 6$$



$$\frac{1,5}{4} = \frac{12,3}{x}$$

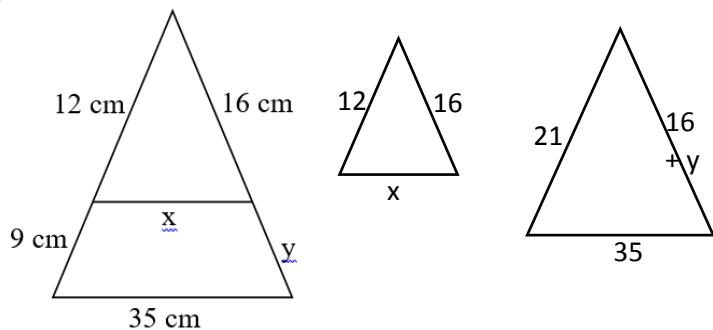
$$1,5x = 49,2$$

$$x = 49,2/1,5$$

$$x = 32,8$$

Falta caminhar  $32,8 - 12,3 = 20,5$  m

f)



$$\frac{12}{21} = \frac{x}{35}$$

$$\frac{16}{16+y} = \frac{12}{21}$$

$$21x = 420$$

$$x = 420/21$$

$$x = 20$$

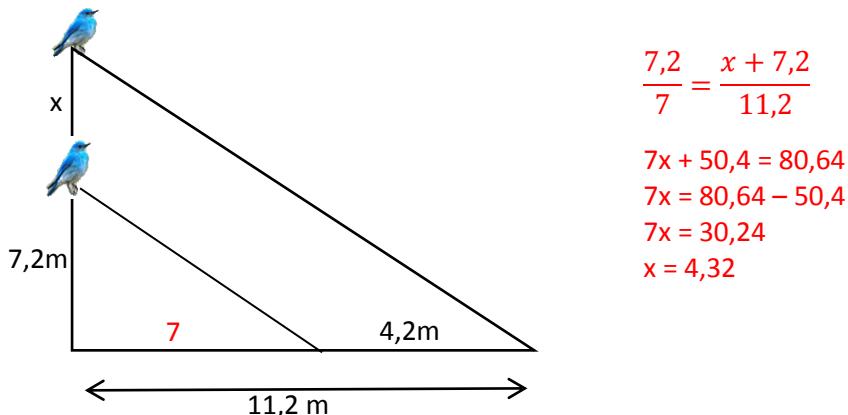
$$192 + 12y = 336$$

$$12y = 336 - 192$$

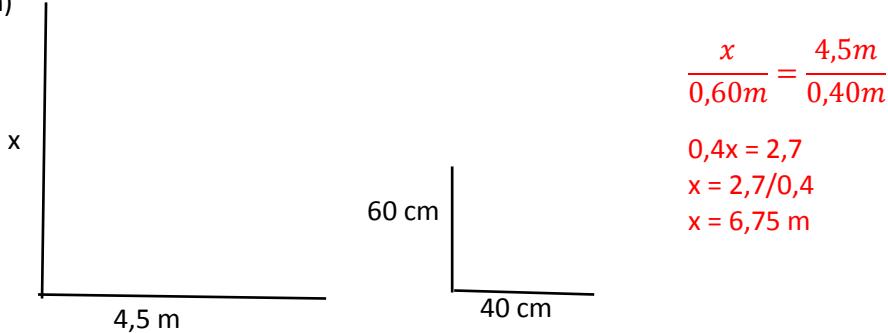
$$12y = 144$$

$$y = 12$$

g)

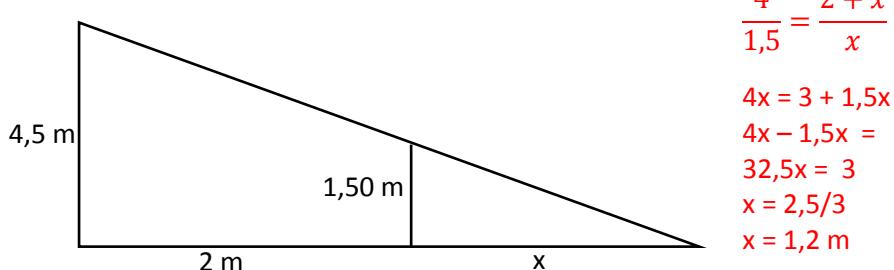


h)

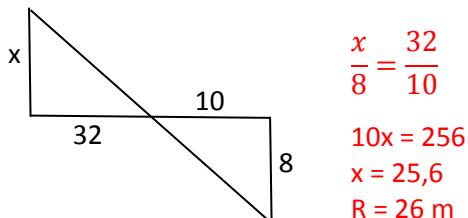


**ATENÇÃO!!!**  
Para resolver uma proporção,  
os valores precisam estar na  
mesma unidade.

i)



j)



k)

