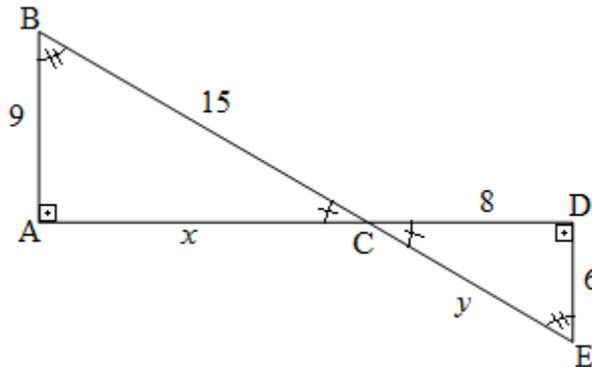


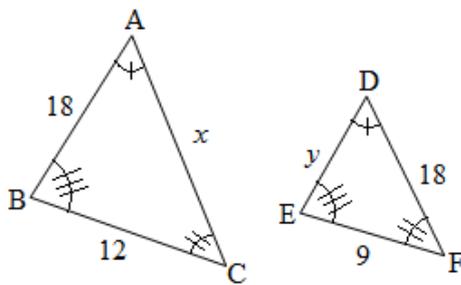
LISTA DE EXERCÍCIOS – SEMELHANÇA DE TRIÂNGULOS

1) Sabemos que os triângulos abaixo são semelhantes, nessas condições calcule os valores de x e y :

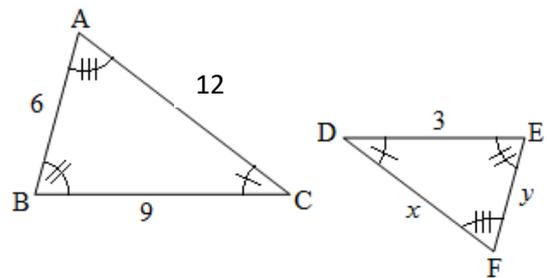


2) As figuras abaixo mostram pares de triângulos semelhantes. Dessa forma, calcule os valores de x e y :

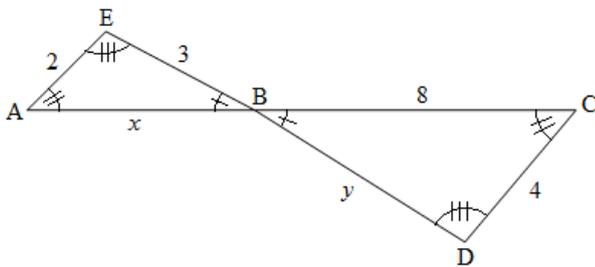
a)



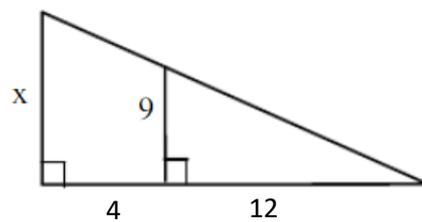
c)



b)

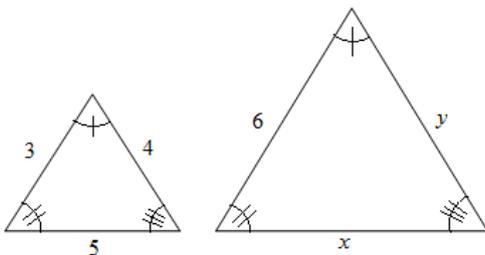


d)

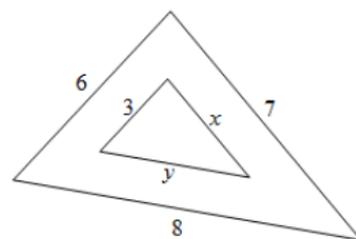


3) Utilize as condições de semelhança de triângulos para encontrar os valores de x e y :

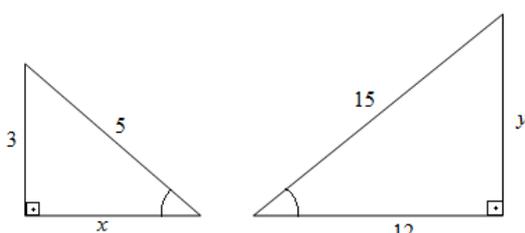
a)



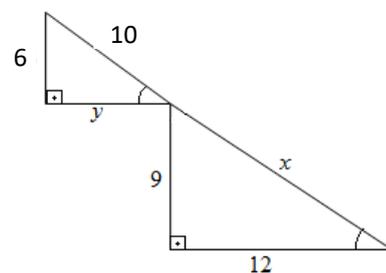
c)



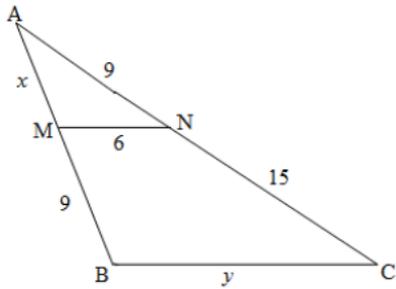
b)



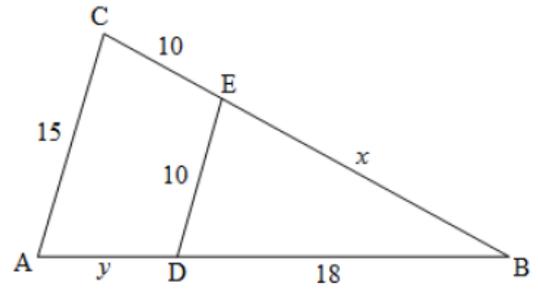
d)



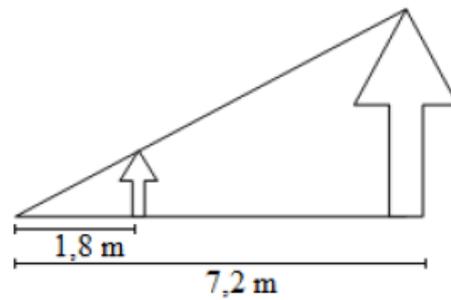
e)



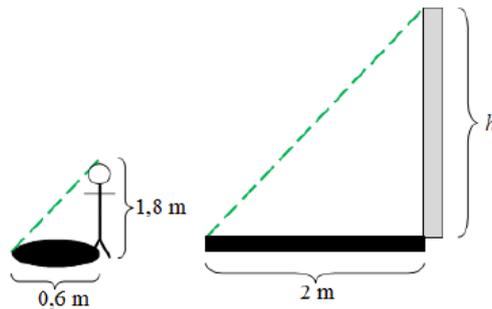
f)



4) Observe a figura e determine a altura da seta maior sabendo que a menor mede 1,5 m.

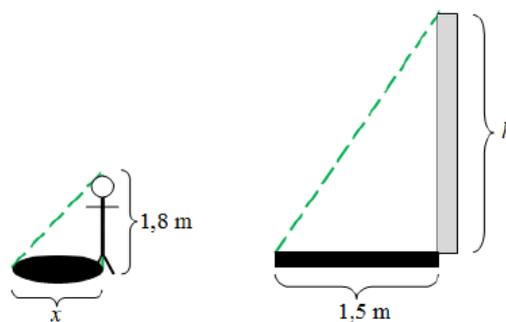


5) A sombra de uma pessoa que tem 1,80 m de altura mede 60 cm. No momento, a seu lado, a sombra projetada de um poste mede 2 m.



a) Determine o valor da altura do poste.

b) Se mais tarde a sombra do poste diminui 50 cm, como na imagem abaixo, qual a medida da sombra da pessoa nesse segundo instante?



Gabarito

1) $x = 12; y = 10$

2)

a) $x = 24; y = 13,5$

b) $x = 4; y = 6$

c) $x = 4; y = 2$

d) $x = 12$

3)

a) $x = 10; y = 8$

b) $x = 4; y = 9$

c) $x = 3,5; y = 4$

d) $x = 15; y = 8$

e) $x = 5,4; y = 16$

f) $x = 20; y = 9$

4) A medida da seta é de 6 m.

5)

a) $h = 6 \text{ m}$

b) $x = 0,45 \text{ m}$