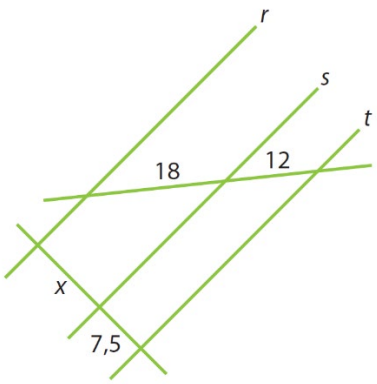
LISTA 18 MATEMÁTICA – PROF FELIPE FIANI

TEOREMA DE TALES

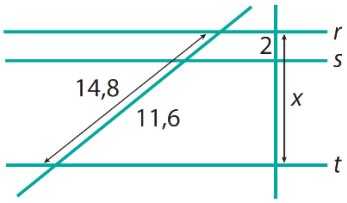
EXERCÍCIOS

1) Determine o valor de x em cada item, sendo r//s//t.

a)

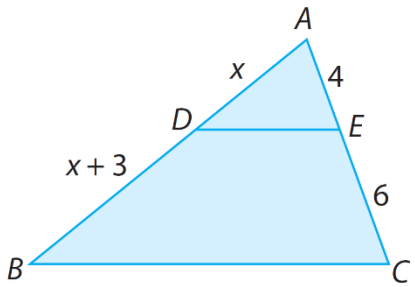


b)

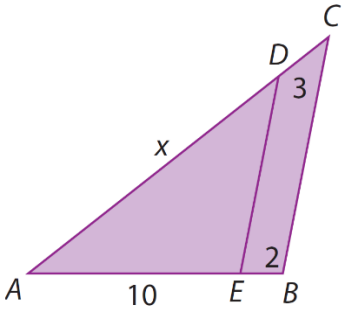


2) Determine o valor de *x* em cada caso sabendo que *DE* // *BC*.

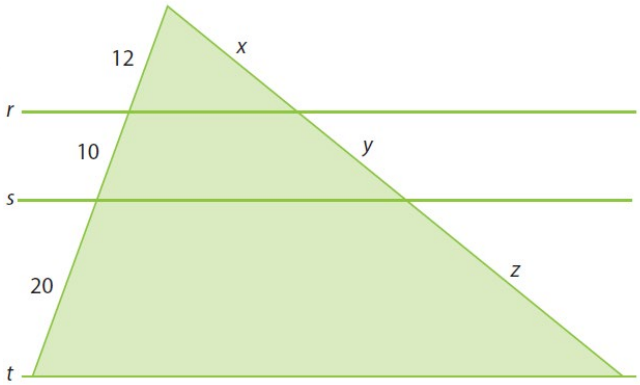
a)



b)

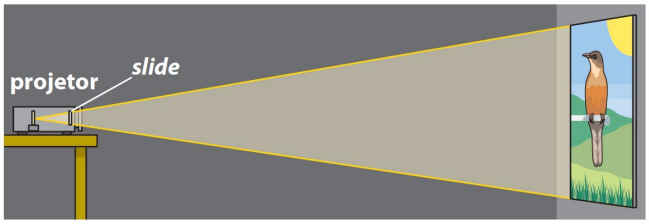


3) Se *r* // *s* // *t* e *x* + *y* + *z* = 63, descubra quais são as medidas *x*, *y* e *z*.



4) Um feixe de três retas paralelas determina, em uma transversal, os pontos *B*, *E* e *F* e, em outra transversal, os pontos correspondentes *B*′, *E*′ e *F*′. Sabendo que *BE* mede 8 cm, *EF* mede 14 cm e *B*′*E*′ mede 24 cm, calcule a medida de *E*′*F*′.

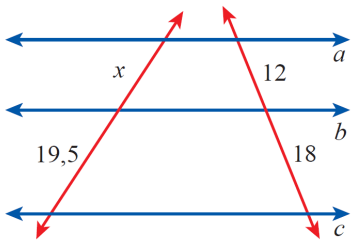
5) Um projetor reproduziu em uma tela a imagem de um *slide*, conforme mostra a figura.



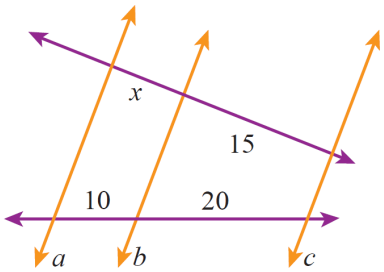
Calcule a medida da largura da imagem formada sabendo que seu comprimento mede 27 cm e que o *slide* tem largura de 3 cm e comprimento de 2 cm.

6) Sendo a//b//c, calcule o valor de x em cada item.

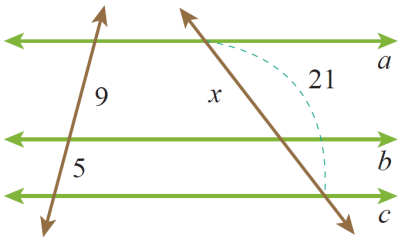
a)



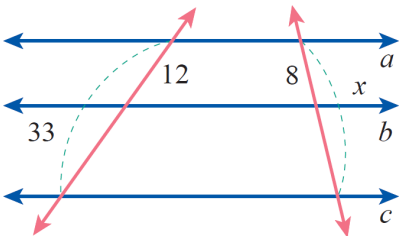
b)



c)

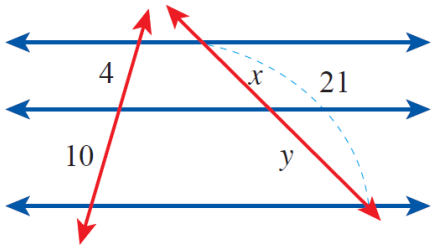


d)

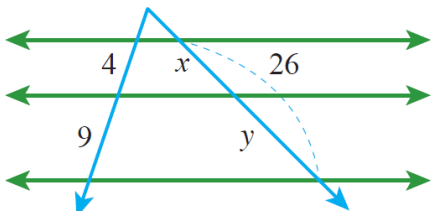


7) Determine os valores de *x* e de *y* nos seguintes feixes de paralelas:

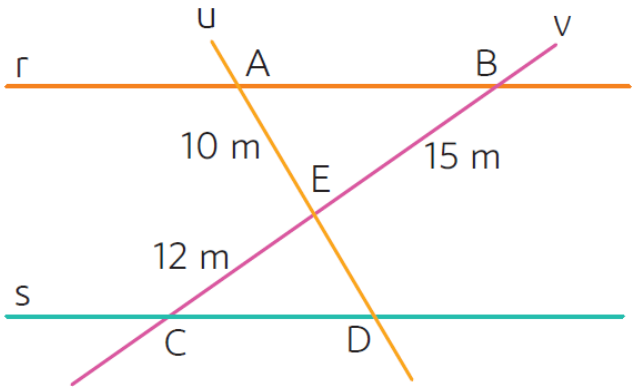
a)



b)



8) As retas *r* e *s* da figura abaixo são paralelas.



Qual é a medida do comprimento de *ED*?

GABARITO

1) a) 11,25 b) 9,25 2) a) 6 b) 15
3) x = 18, y = 15, z = 30 4) 42 cm
5) 40,5 cm
6) a) x = 13 b) x = 7,5 c) x = 13,5
d) x = 22
7) a) x = 8 e y = 15 b) x = 8 e y = 18
8) 8 m