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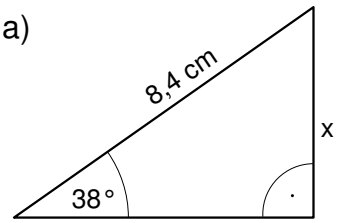
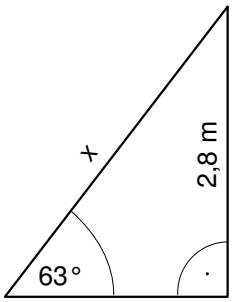
Dreiecksberechnung

1.) Bestimmen Sie jeweils die Länge „x“!

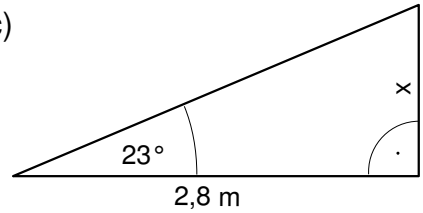
a)



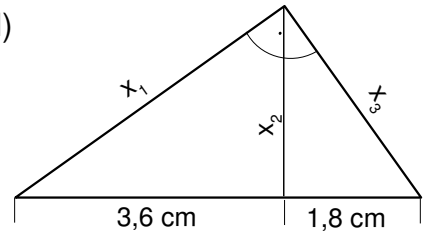
b)



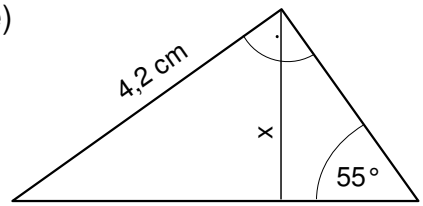
c)



d)

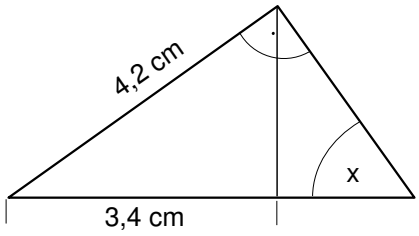


e)

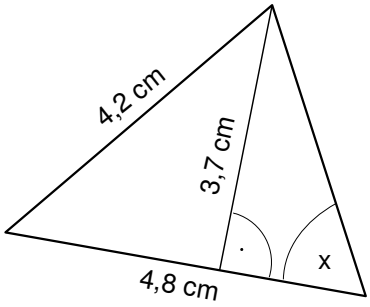


2.) Bestimmen Sie die Winkel „x“!

a)

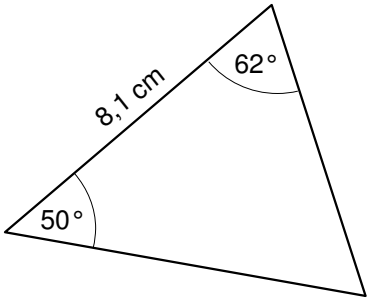


b)

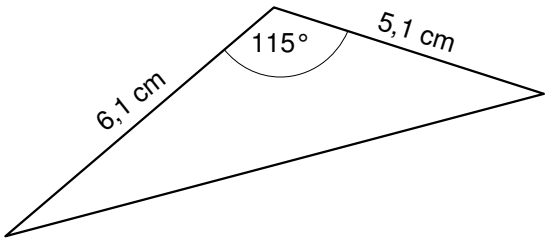


3.) Bestimmen Sie alle fehlenden Seitenlängen und Winkel!

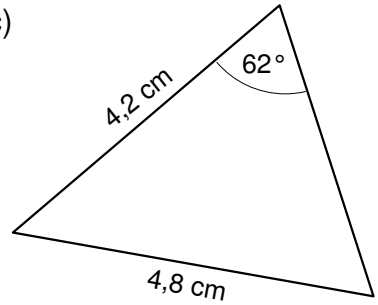
a)



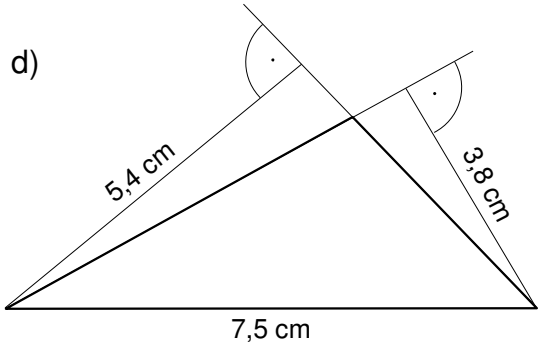
b)



c)



d)



Lösungen:

1. a) x=4,7cm b) x=3,1cm c) x=1,2cm
   d) x_1=4,4cm x_2=2,5cm x_3=3,1cm e) x=2,4cm

2. a) x=54°
   b) (zuerst den linken Teil der Seite c berechnen!) x=72°

3. (Bezeichnungen normgerecht, Reihenfolge entspricht Rechenweg)
   a) β=68° a=6,7cm c=7,7cm
   b) α=29° β=36° c=9,5cm
   c) α=67° β=51° a=5,0cm
   d) α=30° β=46° γ=104° a=3,9cm b=5,6cm