1. *Kawat Tembaga*

Diketahui :

R = 5,1X10-2 Ω

L = 15m

A = 5 mm2 = 5 x 10-6 m2

Ditanya :

ρ = . . . ?

Penyelesaian :

*R = ρ x (L : A )*

5,1X10-2 Ω = ρ x (15m : 5 x 10-6)

5,1X10-2 Ω = ρ x (3 x 106)

ρ = 5.1 x 10-2 : 3 x 106

= 1.7 x 10-8

1. *Paku*

Diketahui :

R = 3 Ω

L = 5 cm

A = 1 cm2

Ditanya :

ρ = . . . ?

Penyelesaian :

*R = ρ x (L : A )*

5 = ρ x (0,05 : 0,0001)

3 = ρ x 500

* = 3 : 500
* = 0.006

1. *Tutup panci*

Diketahui :

R = 10 Ω

L = 2 cm

A = 415,3 cm2

Ditanya :

ρ = . . . ?

Penyelesaian :

*R = ρ x (L : A )*

10 = ρ x (0,02 : 0,04156)

10 = ρ x 0.48

ρ = 10 : 0.48

= 20.8