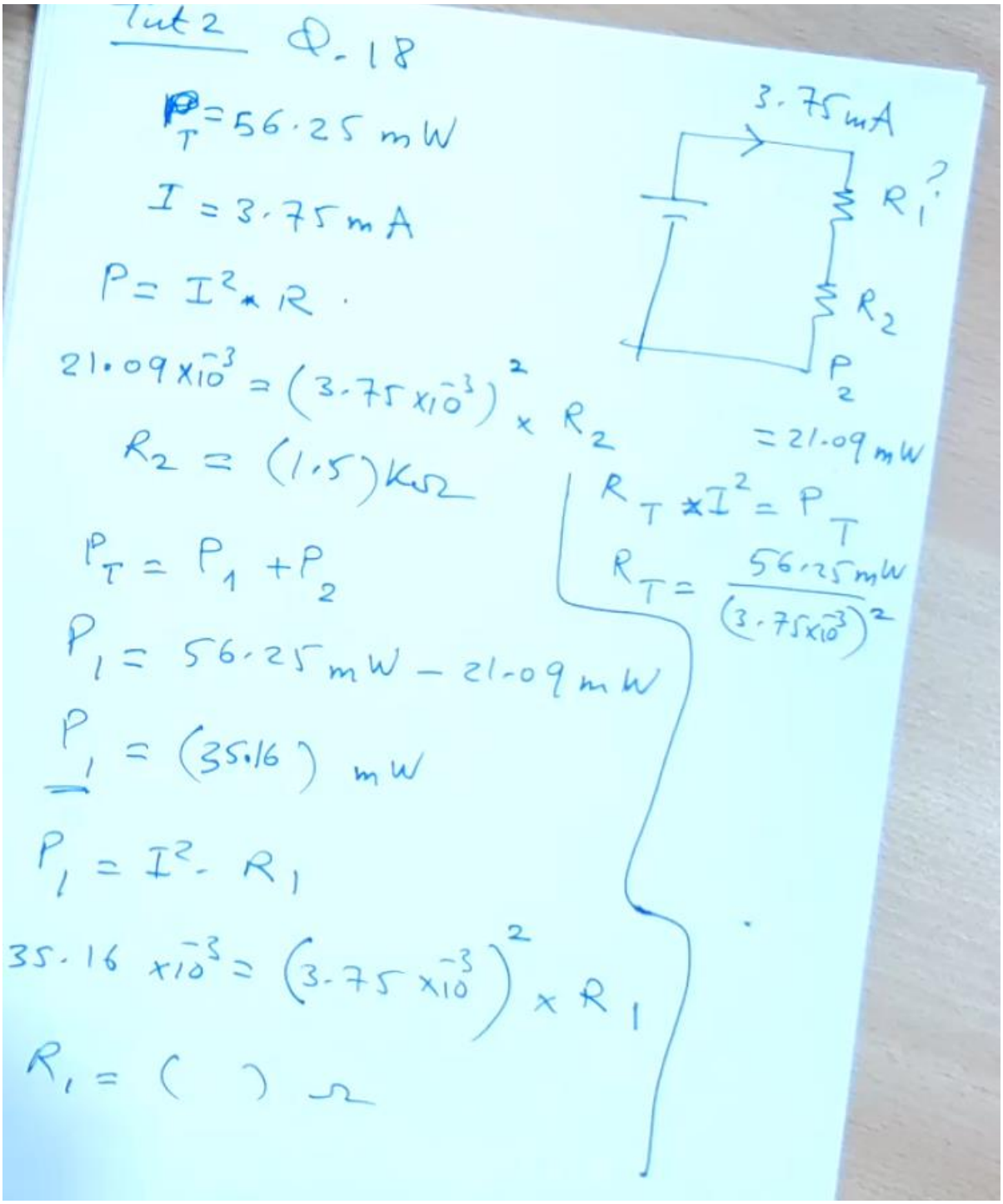
Attribution Nidhal Abdulaziz

Tutorial 2 additional solutions



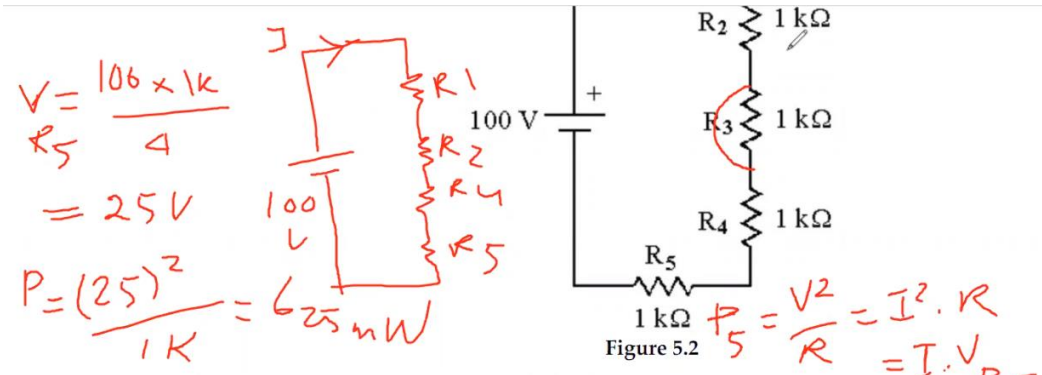


Figure 5.2

20) See Figure 5.2. If R3 is short circuited, how much power is dissipated by R5? 20) _____

A) 2.5 W B) 625 mW C) 325 mW D) 1.25 W

Tut 2 Q. 20

$P_{R_5} = ?$

$P = V.I = V^2/R = I^2.R$

$R_T = 4 \times 1k = 4k\Omega$

$I = \frac{100V}{4k\Omega} = 25mA$

$P_{R_5} = (25 \times 10^{-3})^2 \times 1k$

$= 625mW$