Question 24 (3 marks)

Calculate the total resistance of the electrical circuit shown. Show all your working in the space provided.

 $R_{2} = 12 \Omega$ $R_{3} = 52 \Omega$ $R_{4} = 40 \Omega$ $R_{5} = 33 \Omega$ $R_{6} = 27 \Omega$ 3

13+52=64 40+33=73 24+34.1+27=65.152 1 $\frac{1}{64}+\frac{1}{73}=34.1$ $R_{7}=56.152$ $\frac{24}{64}+\frac{2}{73}=\frac{64}{73}$

