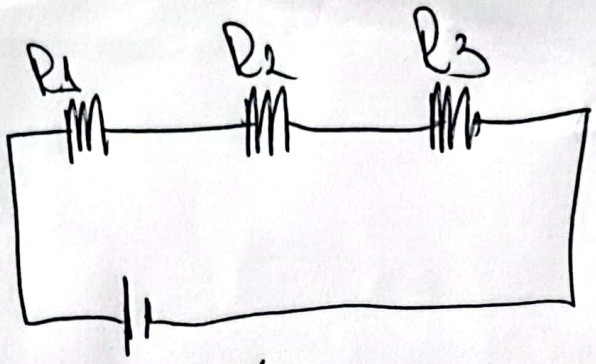
1) a)



b) $Req = R1 + R2 + R3$

$Req = 5 + 10 + 15$

$\boxed{Req = 30\,\Omega}$

c) $U = R \cdot i$

$60 = 30 \cdot i$

$i = \frac{60}{30}$

$i = 2A$

d) R_1

$U = R \cdot i$

$U = 5 \cdot 2$

$\boxed{U = 10V}$

R_2

$U = 10 \cdot 2$

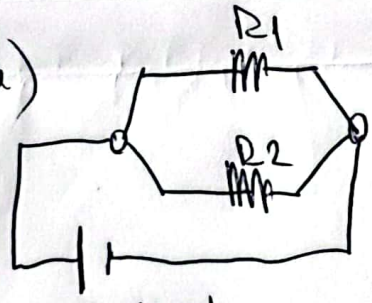
$\boxed{U = 20V}$

R_3

$U = 15 \cdot 2$

$\boxed{U = 30V}$

2) a)



b) $\frac{1}{Req} = \frac{1}{R1} + \frac{1}{R2}$

$\frac{1}{Req} = \frac{1}{20} + \frac{1}{30}$

$\frac{1}{Req} = \frac{3+2}{60}$

$Req = \frac{60}{5} = \boxed{12\,\Omega}$

20	30	2
10	15	2
5	15	3
5	5	5
1	1	

$2 \times 2 \times 3 \times 5 = 60$

c) $U = R \cdot i$

$120 = 12 \cdot i$

$i = \frac{120}{12}$

$\boxed{i = 10A}$

d) R_1

$U = R \cdot i$

$120 = 20 \cdot i$

$i = \frac{120}{20}$

$\boxed{i = 6A}$

R_2

$U = R \cdot i$

$120 = 30 \cdot i$

$i = \frac{120}{30}$

$\boxed{i = 4A}$