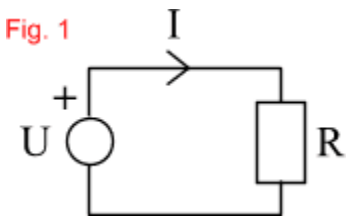
Opgave 1.1

Fig. 1



$R := 10k\Omega \qquad U := 12V$

$I := \frac{U}{R} = 1.2\,mA$

$R := 1k\Omega \qquad U := 12V$

$I := \frac{U}{R} = 12\,mA$

$R := 1k\Omega \qquad U := 3V$

$I := \frac{U}{R} = 3\,mA$

Opgave 1.2

Samme opstilling

$I := 1A \qquad R := 100\Omega$

$U := R \cdot I = 100\,V$

$I := 100mA \qquad R := 10k\Omega$

$U := R \cdot I = 1\,kV$

$I := 1mA \qquad R := 10k\Omega$

$U := R \cdot I = 10\,V$

Opgave 1.3

Samme opstilling

$U := 12V \qquad I := 100mA$

$R := \frac{U}{I} = 120\,\Omega$

$U := 6V \qquad I := 1A$

$R := \frac{U}{I} = 6\,\Omega$

$U := 6V \qquad I := 1mA$

$R := \frac{U}{I} = 6\,k\Omega$