1) a)
$$13 \times -8y - 5z = 0$$

 $12 \times -2y + z = -1$ $111 \cdot 1, 5 - 1$
 $12 \times +4y + 7z = 2$ $111 \cdot 3 - 1$
 $13 \times -8y - 5z = 0$
 $13 \times -8y - 5$

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b)
$$12 \times -2y - 3z = -1$$

 $1 - 2y + 12 = -3$
 $1 - x - y - 3z = -4 | 111 \cdot 2 + 1$
 $1 - 2x - 2y - 3z = -1$
 $1 - 2y + 2 = -3$
 $1 - 4y - 9z = -4 | 111 \cdot (-\frac{1}{2}) + 1$

$$2x - 2y - 3z = -1 \Rightarrow x = 1y + 1,5z - 10,5 = 1 \frac{17}{21}$$

$$-2y + z = -3 \Rightarrow y = 0,5z + 1,5 = 10$$

$$5,5z = 75 \Rightarrow 2 = 1$$

C)
$$14 \times -9 + 22 = 6$$

 $1 \times +29 - 2 = 6 \quad | 11 - 4 - 7$
 $11 \times +39 = 18 \quad | 11 - \frac{2}{3} - 1$
 $11 \times -9 + 22 = 6$
 $11 \times -9 - 62 = 18$
 $11 \times -9 + 22 = 6 = 11 \times -3 - 7$
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 $11 \times$

L= ((x,y, z) 1 x = - 3 t + 2, y = 3 t + 2, z = t und t eR}

I)
$$I_{1} - I_{2} - I_{3} = 0 V$$

II) $50I_{1} + 150I_{2} + 0 = 210V \mid II/50 - I$

III) $0 - 150I_{2} + 100I_{3} = 0V$



easing

