$$\text{I} \quad 3a + 4b + 6c = 5$$
$$\text{II} \quad 11b + 24c = 7$$
$$\text{III} \quad 2c = 7$$

$$\text{III} \quad 2c = 7 \qquad |:2$$
$$\Leftrightarrow c = 3,5$$

III in II
$$11b + 24 \cdot 3,5 = 7$$
$$\Leftrightarrow 11b + 84 = 7 \qquad |-84$$
$$\Leftrightarrow 11b = -77 \qquad |:11$$
$$\Leftrightarrow b = -7$$

II und III in I
$$3a + 4 \cdot (-7) + 6 \cdot 1,5 = 5$$
$$\Leftrightarrow 3a - 28 + 9 = 5 \qquad |+19$$
$$\Leftrightarrow 3a = 24 \qquad |:3$$
$$\Leftrightarrow a = 8$$