

$$\textcircled{1} \quad \mathcal{L} = \{(10, 20)\}$$

$$\textcircled{2} \quad \begin{aligned} 2a - 3b &= a + c - 8 \\ a + b + c &= 2b + 2 \\ b - 2c &= -49 \end{aligned}$$

$$a - 3b - c = -8$$

$$a - b + c = 2$$

$$4a + b - 2c = 0$$

$$\mathcal{L} = \{(1, 9, 3)\}$$

$$\textcircled{3} \quad \begin{aligned} x - y &= -4 \\ 2y - z &= 12 \end{aligned}$$

$$-x + z = 12$$

$$\begin{array}{r} -4/0/-12 \\ 16/20/28 \end{array}$$

$$16/20/28$$

$$\textcircled{4} \quad \mathcal{L} = \{(3, 5, 7)\}$$

$$\textcircled{5} \quad x = \triangle, \quad y = \square, \quad z = \square$$

$$3x + 4y + 5z = 224$$

$$-x + y = 10$$

$$y - z = 2$$

$$12/22/20$$

$$x \mid x+10 \mid x+8$$

$$3x + 4(x+10) + 5(x+8) = 224$$

$$3x + 4x + 40 + 5x + 40 = 224$$

$$12x = 144$$

$$x = 12$$

$$y = 22$$

$$z = 20$$

6

$$\frac{48}{60} = \frac{4}{5} = 0.8h$$

$$v_1 \cdot 0.8 + v_2 \cdot 0.8 = 48$$

$$4v_1 - 4v_2 = 48$$

$$4v_1 + 4v_2 = 240$$

$$8v_1 = 288$$

$$v_1 = 36 \text{ m/s}$$

$$v_2 = 24 \text{ m/s}$$