

Question 26 again

$$\begin{array}{l} (1) \quad x + y - z = 1 \\ (2) \quad 8x + 3y - 6z = 1 \\ \quad \quad \quad \cancel{-4x - 8y + 3z = 1} \end{array}$$

$$(3) \quad -4x - y + 3z = 1$$

$$(2) \times 1 \quad 8x + 3y - 6z = 1$$

$$(3) \times 2 \quad -8x - 2y + 6z = 2$$

$$\cancel{(3) \times 2 \quad -8x - 2y + 6z = 2}$$

$$8x + 3y - 6z + (-8x) - 2y + 6z = 1 + 2$$

$$y = 3$$

$$(1) \times 3 \quad 3x + 3y - 3z = 3$$

$$(3) \times 1 \quad -4x - y + 3z = 1$$

$$3x + 3y - 3z + (-4x) - y + 3z = 3 + 1$$

$$(4) \rightarrow \quad -x + 2y = 4$$

Sub (4) $-x + 2 \times 3 = 4$

$$-x + 6 = 4$$

$$-x = -2$$

$$x = 2$$

$$(3) \quad -4x - y + 3z = 1$$

$$(-8) - 3 + 15 = 1 \quad \times$$

Sub (1) $x + y - z = 1$

$$2 + 3 - z = 1$$

$$z = 5$$

check

