Use Gaussian elimination on the system of equations below to give an expression for z in terms of λ.

$$x + y + z = 2$$
$$4x + 3y - \lambda z = 4$$
$$5x + 6y + 8z = 11$$

Determine the value(s) of λ for which this system **does not** have a solution.   **5**

Answer:

$\lambda = -1$