**Solving 3 Simultaneous Equations**

Solve the simultaneous equations:

$$x+y+z=6$$

$$2x+3y-z=4$$

$$x+5y+2z=13$$

Solve the simultaneous equations:

$$x+y+2z=12$$

$$5x-2y+z=22$$

$$x-y+z=9$$

Solve the simultaneous equations:

$$x+y+z=0$$

$$-2x+y+2z=7$$

$$4x-y-z=-5$$

1 banana, 1 apple and 1 orange costs 90p. 2 bananas, 3 apples and 1 orange costs £1.90. 4 bananas, 1 apple and 3 oranges costs £2.50. Work out the cost of each piece of fruit.

Explain why it is not possible to solve these three simultaneous equations.

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