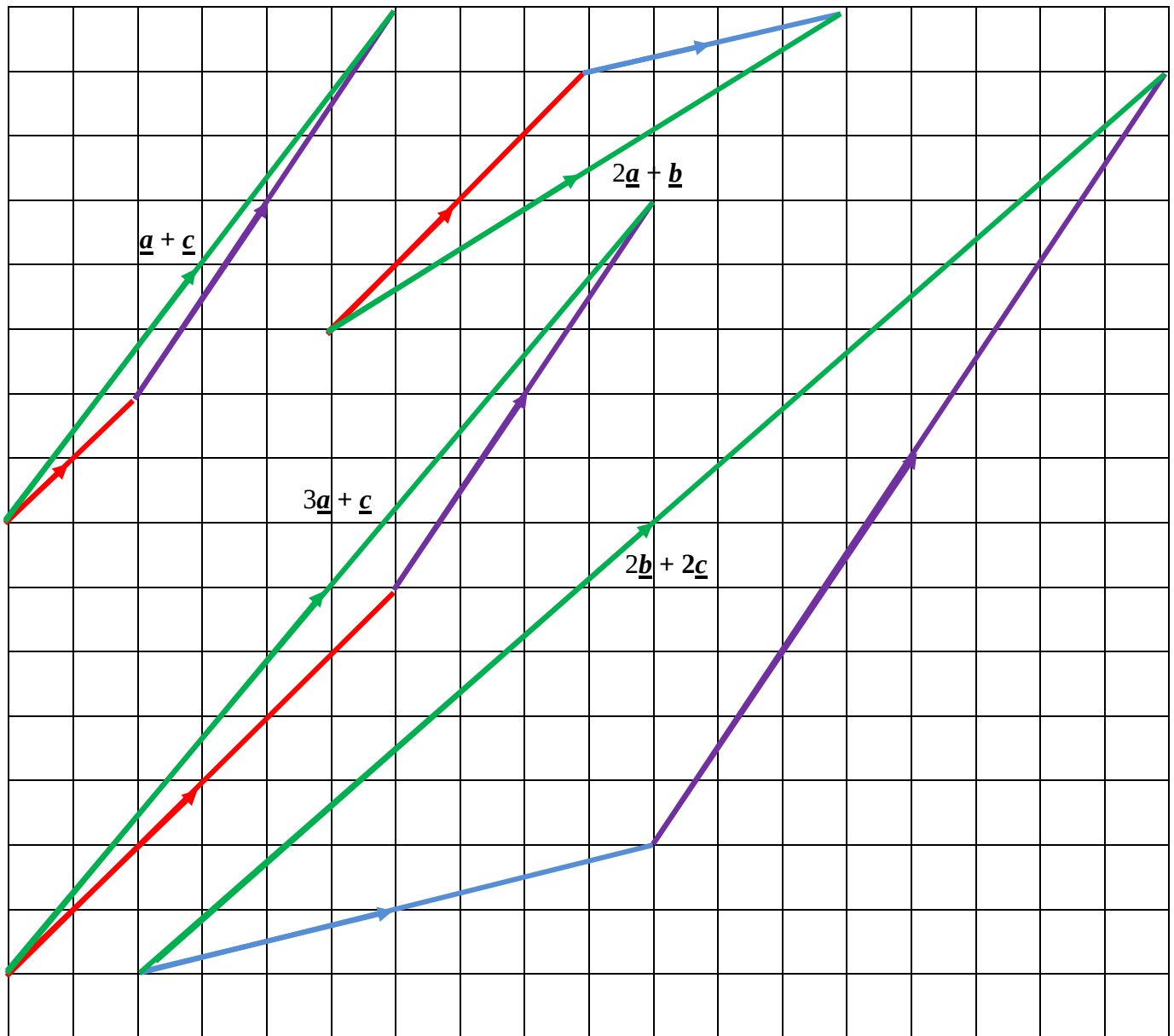


1.



2. **a)** $B(8, 6, 0)$ & $D(4, 3, 9)$

b) $O(0, 0, 0), B(6, 0, 0), C(6, 3, 0), D(0, 3, 0), E(0, 0, 4), F(6, 0, 4), G(6, 3, 4)$ & $H(0, 3, 4)$

3. **a)** $u + v + w = \begin{pmatrix} 5 \\ 6 \\ 5 \end{pmatrix}$ **(b)** $p + q + r = \begin{pmatrix} -3 \\ 5 \\ -8 \end{pmatrix}$ **(c)** $a + b + c = \begin{pmatrix} 1 \\ 0 \\ 3 \end{pmatrix}$

4. $a = \begin{pmatrix} 2 \\ 2 \end{pmatrix}, b = \begin{pmatrix} 4 \\ 1 \end{pmatrix}, c = \begin{pmatrix} 4 \\ 6 \end{pmatrix}$

5. **a)** $\sqrt{45}$ or $3\sqrt{5}$ **(b)** $\sqrt{305}$ **(c)** $\sqrt{337}$ **(d)** $\sqrt{1076}$ or $2\sqrt{269}$