

$$344 \quad \begin{cases} \frac{x-y}{2} - \frac{2z-1}{3} = 1 \\ \frac{6x-3}{4} - \frac{y+4z}{2} = \frac{4y+5}{4} \\ \frac{2x-3y}{2} = \frac{3z-1}{3} \end{cases} \quad [\text{indet.}]$$

$$345 \quad \begin{cases} 3x + 2y + 4z = 2 \\ \frac{x-2y}{2} + \frac{x+z}{3} + 1 = 0 \\ \frac{x+y+z}{2} + \frac{1}{2} = y \end{cases} \quad [(0; 1; 0)]$$

$$346 \quad \begin{cases} 3(x+z) - 2(y-4) = -5 \\ x - 3y = 4(4+z) - 3 \\ z + 3 = 2y - x \end{cases} \quad [(-2; -1; -3)]$$

$$347 \quad \begin{cases} -\frac{2}{3}(x+y) + 2(z+1) = \frac{1}{3} \\ \frac{1}{3}x + \frac{3}{2}z = y - 1 \\ 3(x-z) = x + y \end{cases} \quad \left[\left(\frac{3}{2}; 2; \frac{1}{3}\right)\right]$$

$$348 \quad \begin{cases} \frac{2}{3}(x+y) = z - 1 \\ \frac{7}{4}(z-x) = \frac{1}{2}(y+1) + 1 \\ z + y = \frac{3}{2}x + 1 \end{cases} \quad \left[\left(1; \frac{1}{2}; 2\right)\right]$$

$$349 \quad \begin{cases} \frac{4}{3}y - 2x = z - \frac{2}{3} \\ \frac{3}{2}\left(x + z + \frac{2}{3}\right) = 3y \\ x = 2(y-z) \end{cases} \quad \left[\left(\frac{2}{3}; 1; \frac{2}{3}\right)\right]$$

$$350 \quad \begin{cases} 2(x-3y+2z) = 5-5x \\ 7x-3(x-y+2) = z \\ 2(x+3y)+1 = 3(2y+z) \end{cases} \quad [(1; 1; 1)]$$

$$351 \quad \begin{cases} x - 3ay + z = -a \\ 3x - ay - 5z = 5a \\ 2x + 3ay + 2z = 7a \end{cases} \quad [a = 0, \text{indet.}; a \neq 0, (2a; 1; 0)]$$

$$352 \quad \begin{cases} x + y + z = 0 \\ (a-1)x + (a+1)y + az = -2 \\ (a+1)x + (a-1)y + az = 2 \end{cases} \quad [\text{indet.}]$$

$$353 \quad \begin{cases} ax - y + 3z = 4a \\ ax + y - 2z = a \\ 2ax - 3y - z = 0 \end{cases} \quad [a = 0, \text{indet.}; a \neq 0, (2; a; a)]$$

$$354 \quad \begin{cases} x + 2ay - z = -2a \\ 3x - ay = 5z + 2a \\ x + ay = z \end{cases} \quad [a \neq 0, (5a; -2; 3a); a = 0, \text{indet.}]$$

$$355 \quad \begin{cases} x - 3y + 5az = a \\ 2x - 6y = a - 10az \\ x + y = 4a \end{cases} \quad [a \neq 0, \text{impossibile}; a = 0, \text{indet.}]$$

$$356 \quad \begin{cases} bx - ay + z = 0 \\ ax + by - z = a^2 + b^2 \\ bx + ay + z = 2ab \end{cases} \quad [a = 0, a = -b, \text{indet.}; a \neq 0 \wedge a \neq -b, (a; b; 0)]$$

$$357 \quad \begin{cases} 2x - 3az = 5(a-y) \\ 2az - 2y = -5a - 3x \\ 5y + 2x = a(1+7z) \end{cases} \quad [a = 0, \text{indet.}; a \neq 0, (-a; 2a; 1)]$$

$$358 \quad \begin{cases} bx - y = 4b \\ 2bx - 2b = (b-1)z - y \\ 4y + 6b = 3bz - bx \end{cases} \quad \left[b = 0, b = -\frac{5}{4}, \text{indet.}; b \neq 0 \wedge b \neq -\frac{5}{4}, (2; -2b; 0)\right]$$