Homework: Inconsistent and Dependent Systems - Key

In Problems 1-12, use Gaussian elimination to find the complete solutions to each system of equations, or show that none exists.

1. $\left(\frac{5}{7}z-\frac{6}{7},\frac{8}{7}z-\frac{11}{7},z\right)$	2. $\left(\frac{-7}{15},\frac{29}{15},\frac{2}{15}\right)$
3. No solution	4. $\left(\frac{13}{11}z+\frac{5}{11},\frac{-5}{11}z-\frac{7}{11},z\right)$
5. $\left(\frac{-9}{8},\frac{-11}{8},\frac{-13}{8}\right)$	6. $(2z+9,7z+16,-3z-10,z)$
7. No solution	8. $\left(\frac{1}{2}z+\frac{1}{8},\frac{1}{2}z-\frac{13}{8},z\right)$
9. $(26z+26,-3z-3,z)$	10. $(-4z-2,-17z-11,z)$
11. $\left(\frac{7}{5}z+\frac{11}{5},\frac{-3}{35}z+\frac{11}{35},\frac{1}{7}z+\frac{8}{7},z\right)$	12. $\left(\frac{8}{43}z+\frac{6}{43},\frac{-12}{43}z-\frac{138}{43},\frac{1}{43}z+\frac{119}{43},z\right)$