Solving Systems of Three Equations WKST

Directions: Solve each system of equations.

1. $-x - 5y - 5z = 2$
   $4x - 5y + 4z = 19$
   $x + 5y - z = -20$

2. $x = -4z - 19$
   $y = 5x + z - 4$
   $-5y - z = 25$

3. $x - 6y + 4z = -12$
   $x + y - 4z = 12$
   $2x + 2y + 5z = -15$

4. $-6x - 2y + 2z = -8$
   $3x - 2y - 4z = 8$
   $6x - 2y - 6z = -18$

5. $x - y + 4z = 5$
   $4x + 3y - 2z = 5$
   $2x + z = 2$

ANSWERS

1. $(-2, -3, 3)$ 2. $(1, -4, -5)$ 3. $(0, 0, -3)$ 4. No solution.   5. $(0, 3, 2)$