Systems of 3

Name_____ period____

Solve each system.

1) $-x - y - 3z = -9$
$z = -3x - 1$
$x = 5y - z + 23$

2) $a - 2b + c = -6$
$a + 5c = -12$
$-a + 6b + 4c = 3$

3) $-x - 5y + z = 17$
$-5x - 5y + 5z = 5$
$2x + 5y - 3z = -10$

4) $4x + 4y + z = 24$
$2x - 4y + z = 0$
$5x - 4y - 5z = 12$

5) $-6x - 2y - z = -17$
$5x + y - 6z = 19$
$-4x - 6y - 6z = -20$

6) $x + 3y = -17$
$3x = -6$
$4x - 3y + 6z = 25$

7) $6r - s + 3t = -9$
$5r + 5s - 5t = 20$
$3r - s + 4t = -5$

8) $3a - 3b + 4c = -23$
$a + 2b - 3c = 25$
$4a - b + c = 25$