

Name : _____

Systems of Equations - Substitution Method

Sheet 1

Solve each system of equations using substitution method.

1) $3a - b - 5c = 22$
 $4c = -12 - a - 2b$
 $2a - 19 = 6b + 3c$

2) $u = 10 + 4v - 8w$
 $-4u + 6v - 2w = -35$
 $29 + 4w = 8u + 2v$

3) $3y - z = 13 - 7x$
 $9y + x + 2z = 19$
 $-4x + 14 = 5y - z$

4) $2s - 3t - u = -33$
 $s + t = 16 - u$
 $-t = 47 - 3s - 4u$

5) $-6p - 4q + 3r = 11$
 $10q - 2r + 23 = 4p$
 $r - 9 = 3q - p$

6) $2w - x + y = 0$
 $x - w + 3y = -21$
 $-x - y = 13 + w$

7) $-19 = 4b - 5c + 9d$
 $d + 6b = 9 + 2c$
 $3c - 2b + 8d = -28$

8) $r + 2s = -25 + t$
 $3r - s + 2t = 34$
 $-2s = 27 + t - 2r$
